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### The EMIST AND DRUGGIST MANUFACTURER

**JANUARY 10, 1948** 

WHOLESALER



manufactured by MAY & BAKER LTD.

distributors PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

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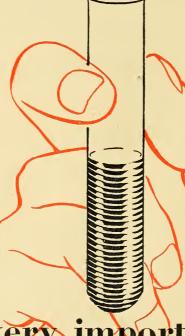
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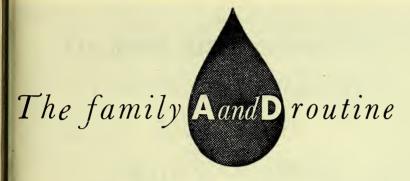
At every important stage

of its manufacture every batch of Monsante pharmaceuticals is carefully checked by highly specialised control chemists. Then on top o all that, not a pound or a pint of a Monsante product is passed for dispatch or further use until it has undergone the most critical analytical tests. For full details of Monsanto's complete range of pharmaceuticals, write to a Monsanto Chemicals Limited, Victoria Station House, London, S.W.1.

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SALICYLIC ACID BP; SODIUM SALICYLATE BP;
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BENZOIC ACID BP; VANILLIN, PHENOL BP;
CRESOL BP; LYSOL BP; CRESANTOL-3;
CRESANTOL-15; CRESANTOL-15 R;
PCMC(CHLOROCRESOL BP); PCMX(CHLOROXYLENOL BP)

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Twelve drops daily for the baby . . . . twenty drops for the adolescent . . . . and up to sixty drops for the debilitated adult. Indeed, the dosage of Adexolin Liquid can be *precisely* adjusted to meet every need for additional vitamins A and D—and, of course, it can be given in a variety of ways. For babies a convenient plan is to mix the liquid with a little orange juice or milk; grown-ups usually take it undiluted. The one unvarying factor is that every drop of Adexolin provides balanced and definite amounts of vitamins A and D.

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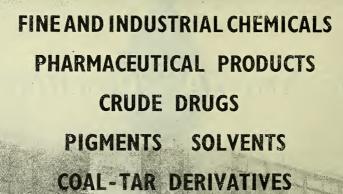
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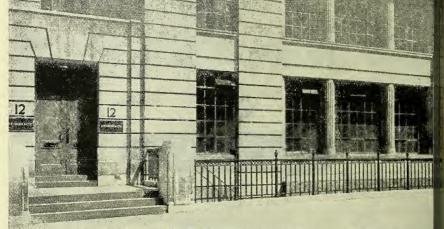
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New Retail Prices: 8 powders or 16 tablets 1/6, 21 powders or 42 tablets  $3/7\frac{1}{2}$ . Single dose  $2\frac{1}{2}d$ . (incl. Purchase Tax).

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'Medinal' is available in:—Tablets: gr. 7½ and gr. 5. Tubes of 10 and bottles of 100 and 250.

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DOSAGE: For adults 5 to 10 grains is the usual dose, with proportionately smaller doses for children.

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Prices of the eight different qualities available are from 4/4 per sq. yard to 6/9 per sq. yard for red Super sheeting.

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'ALASIL' presents the beneficial therapeutic effects of acetylsalicylic acid in such a form that it is readily acceptable even to those with finely balanced digestive systems. This high tolerability is due to the fact that 'Alasil' combines acetylsalicylic acid with Dibasic Calcium Phosphate and 'Alocol' (Colloidal Hydroxide of Aluminium), an effective gastric sedative and antacid.

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With Vitamins Sole Manufacturers VYILIN VITAMINS per fl. oz.

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Tablets carefully and accurately prepared at lowest possible prices. CASCARA Latest Automatic

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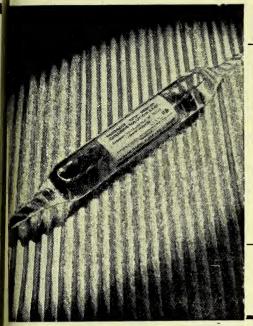
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Telephone: STA 1260

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(contains no soap)

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	Each	Per doz.
Medicinal Preparations (Tax $33\frac{1}{3}\%$ )	Including Tax	Tax Extra
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oo oo	3/2	22/6
* Milk of Magnesia ' Tablets	1/3	9/-
2) 2) 2) 2)	2/6	18/-
* Mil-Par 'Antacid Lubricant	2/10	20/5
22 - 22 22	<b>4/9</b>	34/3
* California Syrup of Figs '	1/6 ,	10/8
" " " "	2/10	19/9
Toilet Articles (Tax 50%)		
* Phillips' Dental Magnesia	1/6	9/7
22 22	2/6	16/6
Cosmetics, etc. (Tax 125%)		
Phillips' Magnesia Texture Cream	1/-	4/5
27 27 27 27	3/-	14/-
Phillips' Magnesia Cleansing Cream	1/-	4/5
	3/ <b>-</b>	14/-
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* Danderine '	2/6	12/-
,,	5/-	24/-
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The Quantity Terms granted in consideration of fourteen days' window or counter display continue on the existing basis.

\*Registered Trade Marks.

P.A.T.A.

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- PHARMACEUTICAL AND TOILET REQUISITES
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Samples supplied on request

### **CLAY & ABRAHAM Ltd**

Manufacturing Chemists

Bold Street, Liverpool,



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January 10, 1948

THE CHEMIST AND DRUGGIST

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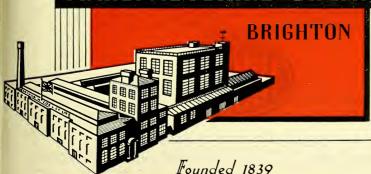


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MANUFACTURING CHEMISTS



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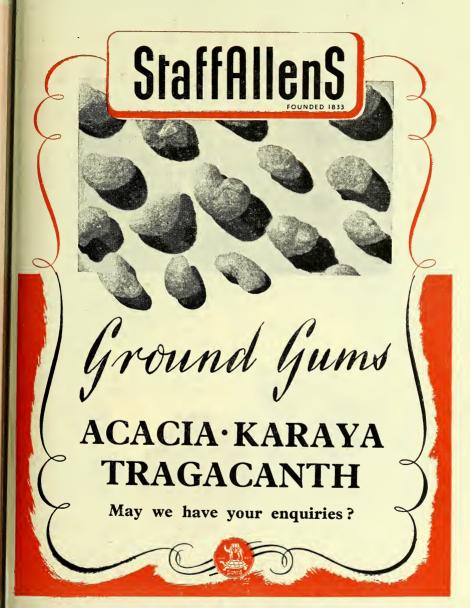
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PACKED in airtight tins.

YOUR INDIVIDUAL REQUIREMENTS ARE PROVIDED BY RED CARNATION BRAND POWDERED GUTRAGACANTH, WHICH IS NOW AVAILABLE IN FOUR STANDARDISED GRADES, OF CERTIFIED QUALITAND CHARACTERISTICS.

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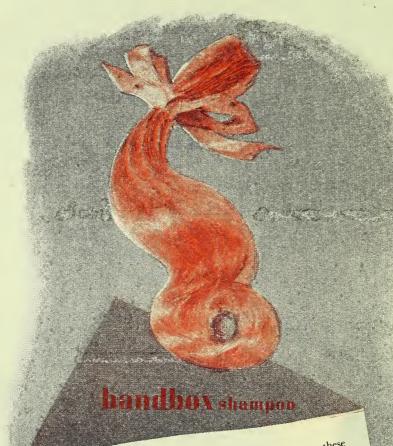
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There are too many fretful babies today because there is not enough Nurse Harvey's. Although there is not enough Nurse Harvey's. Although supplies are easier, the demand is still much greater than production. We try to give all a fair share of available supplies. If you think you are not getting your share, please let us know, and we will try to help you.



IABL

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# The NON-LAXATIVE antacid with over 30 years' reputation

THE DEMAND for a non-laxative antacid is large and steady. In every case you can confidently recommend 'BISURATED' Magnesia (Bism. Carb. 8%, Sod. Bicarb. 42%, Mag. Carb. 50%).

Strict control of the standard of the ingredients, meticulous checking by a fully trained technical staff of each manufacturing process, ensures that the high therapeutic value of 'BISURATED' Magnesia is maintained.

'BISURATED' Magnesia is put up in two forms, small, easily-swallowed tablets and plain or mint-flavoured powder. The powder is strongly recommended for use at night. Both forms sell at 1/7 and 3/3 retail, including purchase tax. Trade price 12/9 per dozen small size; 26/- per dozen large size, excluding purchase tax.

Additional quantity discounts: £5, 10%; £10,  $12\frac{1}{2}\%$ . All goods carriage paid.

### BISURATED Magnesia

INTERNATIONAL CHEMICAL COMPANY, LIMITED.
12, CHENIES STREET, LONDON, W.C.1.

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TABLET MACHINE OUTPUT 90 PER MIN.

FOR TABLETS FOR TABLETS UP TO 쿡 DIAM

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FOR TABLETS UP TO 1 DIAM

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For round or shaped tablets up to l in.

in diameter and 🖁 in.

Output: 300 to 550 tablets per minute.

Floor Space: 40 in.  $\times$  30½ in.

Power required:

Available with self-

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drive, or for pulley

ments can be made while the machine is

All adjust-

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running. Punches and dies easily changed.

PRESS OUTPUT 2000

MANESTY COPPER COATING PAN

STANDARD 30" DIAM.



MANESTY B.B.3 ROTARY TABLET MACHINE OUTPUT

1000-1500 PER MIN.

FOR TABLETS UP TO 2 DIAM



FOR TABLETS UP TO 2 DIAM



FOR TABLETS UP TO 18 DIAM

MANESTY GRANULATOR OUTPUT 150 - 224 LBS. PER HOUR

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OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO 2"DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN

FOR TABLETS UP TO "DIAM.



PER MIN. FOR TABLETS UP TO 24 DIAM

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The Superfine Talcum Powder for the discriminating purchaser

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Complete Catalogue of Perfumery and Toilet Pi parations sent on request

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MANUFACTURERS OF EXCLUSIVE TOILET PREPARATIO

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1948



### ASTHMA REMEDY



Revised "Budget" Prices
Price 2/5 per Tin (inc. tax)
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Well advertised and world famous A sound selling line for every Chemist

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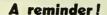
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### ZOTE SPONGES

#### CAME DOWN IN PRICE ON DECEMBER 1st

Retailers already know - most of them to their profit! - about the unusually quick success of the ZOTE Sponge. ZOTE is on the map!

The quick success has made it necessary to install new and faster methods of production - methods that have brought down the cost of manufacture. So, when the price of so many things is going up, the price of ZOTE Sponges is reduced -a healthy reduction of 7d., we had hoped it would be more.

WARNING: Supplies of the attractive display outer already have — they can be used again when you re-order CAN YOU USE A SHOWCARD? An attractive press. Can you make use of it? Ask for it when you next order

Sole Selling Agents: HALEX LIMITED

BUDGET NOTE

Owing to the increased purchase tax, new deliveries of Zote Sponges will retail at 4 2d. as from 1st

P.A.T.A.

Sole Selling Agents:

HALEX LIMITED, HALE END, LONDON,

Steady sales and good supplies

Extensive advertising of D.D.D. Balm - in the national provincial and periodical press and the women's journals s a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of Supplies are now equal to D.D.D. Balm are so steady. demand - your wholesaler can deliver from stock.

D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.



TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.

D.D.D. COMPANY LTD., 3 FLEET LANE, LONDON, E.C.4

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1948



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binding. Pocket-size. Over 200 pages. If you have not yet placed your order for this popular diary and handbook you should do so without delay.

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**OPHTHALMIC + SOLVELLÆ** 



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# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER
JANUARY 10, 1948

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

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## **NEWS OF THE WEEK**

D.D. Authorities Restored.—The Home Secretary has restored to Henry Joseph Constantine Churchill, M.R.C.S., Eng., L.R.C.P., Lond., the authorities under the Dangerous Drugs Regulations which were withdrawn from him on May 22, 1940.

Anglo-Swedish Trade Talks.—A relaxation of Swedish import restrictions is expected as an outcome of talks which have been taking place recently between the Swedish trade delegation and British authorities. Sweden's import requirements are understood to include chemicals.

Goods for Re-export.—The Import Licensing Department, Board of Trade, states that the Channel Islands, Isle of Man and Northern Ireland are not acceptable as export destinations for goods licensed for import on the express condition that they will be re-exported or used in the production of goods for export.

Paper for Circulars. — The Board of Trade has made an Order (S.R. & O., 1947, No. 2717) reducing the quantity of advertising circulars which a person may distribute free of charge in any period of three consecutive calendar months to 1 cwt, or

(if greater) to 10 per cent, of the aggregate weight distributed in the corresponding period in year ended August 31, 1939.

New Dangerous Drugs.—An Order-in-Council entitled the Dangerous Drugs Act (Application) Order, 1947, which came into effect on January 1, 1948, brought under the control of the Dangerous Drugs Acts and Regulations the following drugs and preparations which were not previously so controlled:—

Amidone (*dl*-2-dimethylamino-4:4-diphenyl-heptane-5-one), its salts and any preparation, admixture, extract or other substance containing any proportion of amidone.

Methyldihydromorphinone (commonly known as metopon), its salts and any preparation, admixture, extract or other substance containing any proportion of methyldihydromorphinone.

[It is understood that metopon is manufactured in the United States, on behalf of the U.S. Government, by Parke, Davis & Co., and Sharp & Dohme, Inc., and that no supplies are at present being imported into Great Britain.]

Increased Parcel Postage.—The following increased rates of postage for parcels came into effect on December 29, 1947. Inland:—Not over: 3 lb., ninepence; 4 lb., elevenpence; 5 lb., one shilling; 6 lb., 1s. 1d.; 7 lb., 1s. 2d.; 8 lb., 1s. 3d.; 15 lb. (maximum), 1s. 4d. To Eire:—Not over: 2 lb., ninepence; 5 lb., one shilling; 8 lb., 1s. 3d.; 11 lb. (maximum), 1s. 6d. A new elevenpenny postage stamp has been introduced by the Postmaster-General.

"Industrial Ten" Coupons.—Pharmaceutical workers actually engaged in dispensing duties for not less than twenty hours per week are eligible for the "Industrial Ten" clothing coupons supplement which is to be issued, states the Board of Trade, during the current rationing period, Employers should obtain application forms for eligible employees as soon as possible from local offices of the Ministry of Labour.

Chocolate and Sweet Ration.—The chocolate and sweet ration has been reduced from January 4 (the beginning of ration period No. 7) to 12 0z. per four-week period. For period No. 7, D coupons are worth one point each and E coupons two points each. Unused coupons carried forward from period No. 6 have the following values: D, four points; E, one point. Coupons for periods No. 6 and No. 7 are valid only until January 31.

Changes in Import Duties. — Implementing the Geneva General Agreement on Tariffs and Trade, to which certain Dominions were parties, the Treasury has decided to repeal or reduce the Ottawa duties on a number of commodities, including honey and castor oil. The reduced rate on honey is 3s. 6d. per cwt., or 15 per cent., whichever is the greater (but not more than 5s. per cwt.); and on castor oil, 12½ per cent. An Order (S.R. & O., 1947, No. 2712), giving effect to the changes, came into operation on January 1.

Pilot Census of Distribution.—Most retailers and wholesalers in the areas covered by the officially sponsored Pilot Census of Distribution have now received their census forms. Traders are asked to complete and return the forms as quickly as possible to permit thorough examination of the schedules with a view to modification in the full census. Traders requiring advice on the schedules should approach their local information centre, or, if this is not possible, send their queries to the Census of Distribution Office, Romney House, Tufton Street, London, S.W.I.

Subcommittee on Advertising. — The names of members of a subcommittee appointed by the Federation of British Industries to work out a voluntary scheme for reduction of advertising as an alternative to a proposal dropped from the Finance Bill (see C. & D., December 13 1947, p. 712) have been announced. The members are Mr. F. Bower (representing the Association of British Chambers of Commerce), Mr. D. de Grunwald (Incorporated Society of British Advertisers), and Mr. C. B. Wrey (F.B.I.). The subcommittee invites trade bodies to send representations to the Federation.

Drawback Allowances.—The Treasury has made an Order under the Second Schedule to the Import Duties Act, 1932 allowing drawback on the following: Cinematograph cameras (other than soundrecording cameras) for film of widths 16 m.m., or 9.5 m.m. and under; cinematograph projectors, with or without lenses and with or without stands or pedestals arc lamps for cinematograph projectors theobromine, caffeine, emetine, and the salts of those alkaloids; pharmaceutical grades of natural menthol. The Order (S.R. & O., 1947, No. 2714) came into operation on January 1. An additional Import Duties (Drawback) O.der (S.R. & O. 1947. No. 2729), which came into operation on January 1, reduces the rate of drawback on nitrocellulose photographic film base.

Key Industry Duties. — A new Order (S.R. & O., 1947, No. 2715) dated December 19, 1947, continues until August 19 the exemption from Key Industry Duty of all articles exempted from that duty by previous expiring Orders, with the addition of the following: Secondary butyl alcohol caffeine, theobromine and emetine, and salts of those alkaloids; pharmaceutical grades of natural menthol; theobromine and salts thereof; cinematograph cameras (other than sound recording cameras) for film of width 16 mm., and 9.5 mm. or less; cinematograph projectors with or without lenses and with or without stands or pedestals; arc lamps for cinematograph projec-The following are no longer exempted: Cellulose acetate; isopropyl barbituric acid; vanadium compounds of the following kind, namely, vanadium-silica compounds specially prepared for use as catalysts for sulphuric acid manufacture; caesium bromide, other than as crystals, not optically worked, weighing not less than 2.5 gm. each.

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#### LOCAL NEWS

Works Toy Collection .- Employees of Evans Medical Supplies, Ltd., Liverpool, collected toys and clothing worth between £200 and £250 for the Olive Mount Children's Hospital, Liverpool, recently.

Scottish Trade Fair Proposed. - The Central Committee of the Scottish Chambers of Commerce has asked the Scottish Council on Industry and Development to consider holding an annual Scottish indus-

tries fair.

Christmas Parties.—The Junior Section of the Blackpool Branch of the Pharmaceutical Society held a dinner and Christmas party on December 17, 1947. Directors of the Scholl Manufacturing Co., Ltd., gave a Christmas party in London on December 19, 1947, to some 400 London employees.

London Staff Dance.—Some 170 members of the staff of Gordon, Woodroffe & Co., Ltd., and Biddle, Sawyer & Co., Ltd., were recently entertained by the directors to a dance. The speakers included Mr. to a dance. A. S. Todd (chairman of the companies) and Mr. H. A. Berens, who read a topical poem he had composed for the occasion.

Lecture on Emulgents. - Professor H. Berry (Dean of the College of the Pharmaceutical Society), in a lecture to the Torquay Branch of the Pharmaceutical Society, recently, dealt with the chemistry of a number of modern emulsifying agents and ointment bases, and described their practical applications. A vote of thanks was moved by Mr. J. Sharpe and seconded by Mr. A. R. Baker.

Exeter Double Event.—Owing to transport difficulties resulting from the absence of basic petrol, Exeter Branch of the Pharmaceutical Society held a recent meeting in two parts, the first at Barnstaple on December 17, 1947, and the second on the following day at Exeter. On each occasion three films supplied by the Central Office of Information were shown ("Take Thou," the film made in the laboratories of Evans Medical Supplies, Ltd., "Penicillin in Medical Practice," and "Diary for Timothy "). Some 120 persons attended the two meetings and Mr. W. J. Merrick, M.P.S. (Evans Medical Supplies, Ltd.) gave an introductory talk at each showing.

Chesterfield Annual Meeting. - At the annual meeting of the Chesterfield Branch of the Pharmaceutical Society recently the following officers were appointed: Chairman, Mr. F. W. Dutton; Vice-chairman, Miss L. E. Brothwood; Treasurer, Mr.

F. C. Croft; Secretary, Mr. A. Livesley, 35 Market Place, Chesterfield. Mr. F. W. Adams (deputy secretary of the Society) described aspects of the Society's work and discussed the value of the branch system which provided a general meeting ground different for pharmacists engaged in spheres. It was agreed that a collection of £5 2s. for the Benevolent Fund should be earmarked to provide furnishings for Birdsgrove House. It was unanimously decided to send to the local Members of Parliament, the Pharmaceutical Society and to the Board of Trade protests against the recent increase of purchase tax on medicines.

Somerset N.P.U. Branches.—A meeting of the Somerset Branches of the National Pharmaceutical Union, at Bridgwater on December 11, 1947, discussed the desirability of forming a local N.P.U. committee in order that any circulars or urgent business that came from headquarters could be attended to without calling a meeting of the branch. The decision was taken to form such a committee, basing it on the present Pharmaceutical Committee, with two or three additions, and the committee as formed now consists of Messrs. Jordan and Maunder, Taunton; Cooper, Widgery, Thomas and Miss Cooper, Widgery, Thomas and Miss Weston, Weston-super-Mare; Messrs. Deacon and Tripp, Bridgwater; Hoyles, Wellington; Bond, Somerton; Mansbridge, Yeovil; and Bishop, Wiveliscombe. Delay in receiving N.H.I. payments was also discussed, and a letter was read from the secretary of the Somerset Insurance Committee stating that the Pricing Bureau was quickly catching up on the back payments and was now only three months in arrears. Mr. Deacon, who is also chairman of the Pricing Bureau, assured members present that the South-western Pricing Bureau was one of the speediest in the country. Mr. Hoyles (chairman) then opened a discussion on the rural areas dispensing problem. Mr. Bishop suggested that the limit should be fixed at three miles from the doctor's surgery. He explained that several people from country districts around his pharmacy had to go into town to see their doctor, pass his shop in order to do so, and send into the doctor's surgery for their medicine. Jordan proposed that, as the discussion was the first the branch had had, members might consider the problem more fully and bring forward concrete suggestions at the next full meeting of the N.P.U. committee; the feeling of the meeting was that nothing concrete could be brought forward until the Ministry had really said what was required.

#### **OVERSEAS NEWS**

German Penicillin Prices.—Prices have been fixed by the authorities for the import, wholesale and retail sales of penicillin in Germany at 48, 53.35, and 66.70 Reichmarks per mega unit, respectively.

U.S. Transmutation Experiments.—Dr. Glenn T. Seaborg (professor of chemistry, University of California) told the American Physical Society at a recent meeting in Los Angeles that in one "bombardment" in the University's cyclotron at Berkeley there was brought about the transmutation of uranium into no less than two-thirds of all the known elements.

Canadian Import Restrictions.—In order to conserve dollars the Canadian Government has placed a wide range of goods under import control. Goods in the prohibited list, which includes toilet soap and toilet preparations and cameras, other than those for professional use, are totally prohibited from all sources unless in transit on November 17, 1947. No further import permits will be issued until further notice.

Retail Prices in Russia.—Recent decrees by the Soviet Government, drastically reducing the internal value of the rouble, were part of a new prices and wages policy in that country. Examples of the new prices operating in towns include £34. 7s. 6d. for a camera, 11s. 5d. per lb. for family toilet soap, and 2s. 6d. for a woman's celluloid toilet comb. Earnings range from 400 to 3,000 roubles a month, representing, in terms of the prices given, about £3 2s. 6d. to £23 monthly.

Antibiotics for Italy.—To enable a cut to be made in the imports of American penicillin into Italy (at present equal to some 360,000 units monthly), the Italian Superior Public Health Institute has purchased in Canada a penicillin-manufacturing plant; the Italian Government has assigned 300,000.000 lire for the construction of a penicillin factory in Rome; and the Cisitalia Co. is to build at Apuania, Tuscany, a factory for producing both penicillin and streptomycin.

Portuguese Colonies Drug Shortage.— In order to combat the serious shortages of medicaments in Portuguese colonies, a number of products have been freed from import duty. The exemption list includes insulin and all other preparations for the treatment of diabetes, streptomycin, oils used in the fight against leprosy, sulphonamides, sera and vaccines, preparations for the treatment of malaria, preventive pre parations against tuberculosis, quinine and quinine salts, preparations against sleeping sickness, etc.

U.S. Dollar-saving Policy.—Under new export-licensing policy announced by the U.S. Department of Commerce, foreign buyers will be helped to save scarce American dollars. Licences, previously granted to traders on the basis of their pre-wabusiness, will, in future, go to the cheapes competitive exporter, making the least demand on buyers' dollars. For the first thremonths to 1948 the new policy will be confined to a selected list of commodities in cluding all chemicals and drugs excepstreptomycin.

American Science Conference.—At the 114th meeting of the American Association for the Advancement of Science held in Chicago, U.S.A., December 26-31, 1947 subjects discussed in the pharmacy subsec tion included methods for evaluating com pounds with curare-like action; the antago nism of histamine and adrenaline toward synthetic chemicals; and opportunities and training in industrial pharmacy. chemistry section papers were read or developments in antibiotics, photosynthesis and progress in histamine and antihistamine At an exhibition held at the researches. same time, crystallised proteins (made by Armour & Co.), and photographic material for nuclear research (by Eastman Kodal Co.) were among the displays.

### IRISH NEWS

N.I. Health Services Bill. — The Nor thern Ireland Health Services Bill received a second reading in the Senate on Janu ary 1. The Bill has already passed all it stages in the Northern Ireland House o Commons.

Pilgrimage to Lourdes. — With the approval of the Archbishop of Dublin, a pharmaceutical pilgrimage (estimated cost £35-£40) to Lourdes is leaving Dublin or July 31 and returning on August 18 spending fourteen full days in Lourdes Applications should be sent without delay to the secretaries, Pharmaceutical Pilgrimage, 69 Palmerston Road, Dublin. The following officers to the pilgrimage have been appointed:—Spiritual Director, Rev. E. J. Doherty, O.M.I.; President, Mr. James A. O'Rourke (a member of Council, Pharmaceutical Society of Ireland); Secretaries and Couriers, Messrs. T. J. Burke, B.A., M.P.S.I., and J. J. Kerr, P.C., M.P.S.I.

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## TOPICAL REFLECTIONS

#### A Full Report

Candidates in the examinations of the Pharmaceutical Society in Scotland during the past year cannot complain, even if they were unsuccessful, that the examiners have judged their work with insufficient care. It is safe to say that a more painstaking report than the one summarised on pp. 22-23 of your last week's issue has never been presented to the Council. In my available space I can only touch lightly on certain defects in the theoretical and practical acguirements of some of the candidates. In view of the contention that the Society's diploma should be equal in value to a university degree, it seems strange, on the face of it, that such defects should still be prevalent. The first of them that I have in mind is "rough handling of balances." The delicacy of adjustment in a chemical balance should render rough handling by a trained student unthinkable. Next I notice that many candidates "possess no basic knowledge of Latin" and "practically no knowledge of doses." The outlook for their efforts at the dispensing counter is, in the language of weather forecasts, uncertain. We learn that the standard of competence in forensic pharmacy is mediocre. This subject is so largely a matter of memorising that I fail to think of any excuse for the low standard. Lastly, the calligraphy of some candidates is described as disgraceful. Such aspirants will be better able to afford this eccentricity when they become successful in their vocation.

#### Formularies, Used and Abused

Among the questions asked at a recent meeting of Hendon and Edgware pharmacists (p. 19) was this: "Is the use of a National Formulary in the interests of the patient?" This question may be expanded so as to include every formulary in its scope. It was related of a Victorian physician—Sir Richard Quain, I think-that he professed to prescribe nothing unrecognised in the British Pharmacopæia. That practice, rigidly followed, would be a drag on progress. The prescribing of many, and probably of most, general practitioners tends to harden into a pattern as years go on, with the result that their prescriptions come to resemble a set of formulas. If a committee of medical men is set up and their prescribing experiences are pooled, the compilation of a formulary is not very difficult. Many of the formulas thus agreed upon are no doubt excellent: the next question is how they ought to be used. If prescribers remember (as has often been said) that they are treating patients, not diseases, the judicious employment of a formulary is defensible. Were it not so, even the formulas of the British Pharmacopæia would be condemned. But the use of a formulary should, I submit, be sparing. Frequently it must happen that the observed features of a case suggest a variation on a familiar combination of medicaments. When the conclusion is drawn, the formula in the prescriber's mind needs an addition or a subtraction. The addition can be indicated, possibly, in a two-line prescription; for the subtraction it is preferable to specify each ingredient.

#### Market Reminiscences

Those of your readers who have passed middle life will appreciate Mr. W. C. Radermacher's "Recollections of an Old Drug Broker" (pp. 12-15), and will no doubt make many unspoken comparisons. The article brings clearly before us certain features of life in town sixty or more years ago. One of the most striking differences between the London of, say, 1888, and that of the present year, is in conditions of transport. One remembers the old Underground railway carriages and engines with a vague nostalgia. The prevailing odour of the tunnels may be described as that of phenol-iodine smelling salts, though somewhat cruder. Before the advent of tiled and well-lighted stations we had dim and often smoke-filled structures of stained brick; some realisation of the difficulty of finding one's whereabouts appears to have prompted the introduction into each carriage of a sign showing the name of the next stopping-place. Your contributor's remark that several City merchants used candles in preference to gas for office work is not surprising, as the fishtail burners of the 'eighties gave a light of low candlepower: incandescent mantles were a later introduction. In a few instances of business premises being made by converting living rooms, the dangerous gas chandeliers found in them were retained. Swallowtailed coats, mentioned in the article as seen in Mincing Lane, were not unknown in shops; I remember one old chemist and druggist so attired. The difficulty of obtaining satisfactory gum acacia immediately after the Kitchener campaign in the Sudan was general throughout the country. All the details on pp. 12-15 are well worth putting on record. Xrayser

## COMPANY NEWS

SOUTHTOWN PHARMACY, LTD. (P.C.).—Capital £500. To carry on the business of chemists, druggists, photographic dealers, opticians, etc. Horace H. Cole and Frank H. Cole, directors. R.O.: 13A Southtown Road, Southtown, Great Yarmouth.

Nu-San, Ltd. (P.C.).—Capital £20,000. To carry on the business of pharmaceutical, analytical, manufacturing or consulting chemists, druggists, etc. First directors are not named. Solicitors: Whetstone & Frost, Leicester.

London Capsule Co., Ltd. (P.C.).—Capital £10,000. To acquire the business of a capsule manufacturer carried on by Guy Courtney at Croydon. Guy Courtney, Elise M. Courtney and Paul Courtney, directors. R.O.: Empire Works, Mitcham Road, Croydon.

A. S. KITCHING, LTD. (P.C.).—Capital £1,000. To acquire the business of A. S. Kitching now carried on by Charles F. Kitching at 73 Market Street, Oakengates, and to carry on the business of chemists, druggists, etc. Charles F. Kitching, M.P.S., Eunice C. Kitching and Arthur H. S. Kitching, directors.

Marlex Manufacturing Co., Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in disinfectants, chemicals, soap, polishes and perfumes, etc. Eric J. Salisbury, Alfred S. Dickens and Ernest Glenister, directors. R.O.: 17 Shaftesbury Avenue, London, W.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. V. St. John Killery has been appointed a director. Mr. Killery has been chairman of I.C.I. General Chemicals Division since 1945.

ALLEN & HANBURYS, LTD.—Net profit for the year ended June 30 amounts to £249,710, against £159,469 in the previous year. £170,000 is provided for taxation, against £87,515. A final ordinary dividend of 2s. 6d. per £1 share is recommended, making 3s. 6d. in all for the year, compared with a total of 3s. for 1945-46; £20,000 is appropriated to general reserve; balance forward, £15,798.

IDRIS, LTD.—Net profit for the year ended October 31, after charging debenture interest and providing for depreciation and taxation, amounts to £11,942, against £10,461 in the previous year. Dividends recommended, less income tax, are as follows: A preference shares, 6 per cent., £3,630; B preference, 7 per cent., £385; A ordinary, 10 per cent., £2,750; B ordinary, 10 per cent., £2,750; 5 per cent., £495. £3,000 is transferred to reserve for equalisation of dividends; balance carried forward, £763.

### **BUSINESS CHANGES**

J. F. Macfarlan & Co., 8 Elstree Way, Borehar Wood, Herts, have appointed Mr. R. H. Mathetheir London manager.

Mr. L. G. FISHER has been appointed directo of the Oils and Fats Division, Ministry of Food, i succession to Mr. J. W. Knight.

The advertising department of PARKE, DAVIS { Co., has been transferred to the company's labora tories at Staines Road, Hounslow.

MR. P. G. MARSHALL, D.Sc., F.R.I.C., has been appointed chief development chemist to Britisl Schering Manufacturing Laboratories, Ltd.

S. Maw, Son & Sons, Ltd., have appointed Mr Eric Lampard, M.P.S., 7 Westfield Park, Redland Bristol, 6, to be their representative in the Wes of England.

LONDON CO-OPERATIVE CHEMISTS, LTD., have acquired from Gaylards (Chemists), Ltd., businesse at 10 Coldharbour Lane and 89 Station Road Hayes, Middlesex.

DOUGLAS WALKER PRODUCTS, LTD., have transferred their offices to 17 St. Martin's Street, London, W.C.2, and their warehouse to 1191 Finchley Road, London, N.W.11.

THE NORTH BRITISH RUBBER CO., LTD., have opened a warehouse and branch at Royal Couri Buildings, Bigg Market, Newcastle-on-Tyne. The branch will be under the control of Mr. L. Corbet.

MR. J. E. B. ROBERTS, M.P.S., has been appointed a representative of British Schering, Ltd., 167-69 Great Portland Street, London, W.I. His territory will be west London and the southern home counties.

A. G. Hersom, essential oil and perfumery compound manufacturers, inform us that Mr. T. C. Bryan, who has been connected with the trade in the Midlands, North of England, and Scotland, for many years, joined their firm on January 1.

MR. S. S. VALINS, M.P.S., M.I.Ex., has reopened the pharmacy at 31 Sefton Street, Litherland, Liverpool, 21. Mr. Valins was formerly export manager of Pharmaceutical Specialities (May & Baker), Ltd.

British Aluminium Co., Ltd., Salisbury House, London Wall, London, E.C.2, announce the following staff changes: Mr. H. Cousins (publicity manager) retires at his own request at the end of January after completing forty years' service with the company. The company's publicity department is being combined with the present sales research and statistical section, with Mr. C. G. McAuliffe as manager. From January I the new department becomes the publicity and sales research department. Mr. E. G. Fielding, under the title publicity officer, will be responsible for the publicity work of the department. The company also state that their Midland warehouse at 17 Providence Street, Cradley Heath, Staffs (Telephone: Cradley Heath 6881) is now in full operation. The company's Midland branch office remains at Lansdowne House, 41 Water Street, Birmingham, 3 (Telephone: Central 3053).

THE New Year of Collowing in D. Cockcroff or Research Supply), Knii skinson, K.C. M. Bennet

June 10, 1948

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## **NEW YEAR HONOURS**

THE New Year Honours list included the following names and awards: DR. J. D. COCKCROFT, F.R.S. (director, Atomic Energy Research Establishment, Ministry of Supply), Knight Bachelor; MR. W. C. HANKINSON, K.C.M.G. (see below); DR. G. M. BENNETT (Government chemist), C.B.; SIR EDWARD MELLANBY (secretary, Medical Research Council), Messrs. B. G. CREWE (assistant comptroller, Patent Office), R. O'FIELD OAKLEY (assistant secretary, Department of Scientific and Industrial Research); J. W. RODDEN (director of milk products, Ministry of Food); Dr. G. F. STEBBING (secretary, Radium Commission) (died December 22, 1947); Mr. Fred Storey, M.P.S.N.I.; and MR. D. L. WALKER (general secretary, F.B.I.), C.B.E.; MR. G. A. MALLINSON, M.P.S., barrister-at-law (secretary, National Pharmaceutical Union), LIEUTENANT-COLONEL L. H. RICHARDS (southern-area manager of T. J. Smith & Nephew, Ltd., Hull), MAJOR H. L. STEVENS (Ross Institute of Tropical Hygiene), and Mr. C. West (Department of Scientific and Industrial Research), O.B.E.

MR. G. A. MALLINSON, M.P.S., who has been awarded the O.B.E. in the New Year



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Honours list (see above), is one of the most outstanding figures in retail pharmac eutical organisation. As of the secretary Pharma-National ceutical Union since 1921 he has taken a leading rôle building that organisation to the size and influence it has at present

(see, for example, C. & D., 1946.I. 685). Born in Yorkshire in 1877, he was apprenticed with his brother in Heckmondwike, Yorks, and qualified in 1899. After retail experience in Manchester, he passed the examination for the Fellowship of the Spectacle Makers Company and purchased a business at Withington. It was during this period in Manchester that Mr. Mallinson entered public life. Following the introduction of the National Health Insurance Act (1911) the Manchester Pharmaceutical Association had been reorganised, and during the process Mr.

Mallinson had been appointed its secretary. As secretary it fell to him to prepare a claim for the Association against doctors, alleging over-prescribing. N.H.I. Commission were much impressed by the way the claims case was argued; the Manchester chemists were complimented on the manner in which they had discharged their duties under the Act, and the sub-stantial claims were allowed. Mr. Mallinson gained in this way intimate knowledge of N.H.I. matters, and in 1916 was appointed Superintendent of the National Health Insurance department of the Pharmaceutical Society, in 1918 the Society's assistantsecretary and three years later he was appointed secretary of the newly formed Retail Pharmacists' Union. In 1922 he became a barrister.

Mr. Fred Storey, M.P.S.N.I. (Fred Storey, Ltd., wholesale chemists, Ann Street, Belfast), was

Street, Belfast), was awarded the C.B.E. in the New Year Honours List for his services as president of the Ulster Tourist Development Association. Mr. Storey, a past-president of the Pharmaceutical Society of Northern Ireland, was among those responsible for the founding of the Society in



1925. After helping to pilot the legislation through Parliament, he took a prominent part in the negotiations leading up to reciprocity with the Pharmaceutical Society of Great Britain. Mr. Storey has been president of the Chemists' and Druggists' Society of Ireland since 1920. He is a Belfast Harbour Commissioner, a member of several trade bodies, and secretary of the Cancer Research Fund for Northern Ireland.

MR. W. C. HANKINSON, C.M.G., O.B.E., M.C. (United Kingdom High Commissioner designate for Ceylon), who was created K.C.M.G. in the New Year Honours list (see opposite), is younger brother to Mr. G. H. Hankinson, M.P.S., 57 Watford Way, Hendon Central, London, N.W.4 (chairman and president of the Hendon and Edgware Branch of the Pharmaceutical Society).

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## **DEATHS**

Baly.—At his home, Wendover, Bucks, on January 3. Professor E. C. C. Baly, C.B.E., F.R.S., Grant Professor of Inorganic Chemistry in Liverpool University, 1910-37, aged seventy-six. Professor Baly was widely known for his researches in collaboration with Sir Ian Heilbron, then Professor of Organic Chemistry in Liverpool, into the production of sugars and other substances by the action of light. In 1928 he and Dr. R. W. Riding, Liverpool University, showed that atoms could be made and unmade in the laboratory and could be artificially smashed by an electric current. He made great contributions to spectroscopy and to problems of photosynthesis.

CONNAN,—At 25 Ness Bank, Inverness, on December 23, 1947, Mrs. Emily Davidson Benvie Connan, wife of Mr. Campbell A. Connan, M.P.S.

FRASER.—At the Western Infirmary, Glasgow, on December 19, 1947, Mr. David Ritchie Fraser, M.P.S., 4 Afton Place, Downfield, Dundee, aged thirtyseven. Mr. Fraser qualified in 1934.

GARDNER.—At the Gloucestershire Royal Infirmary, on December 18, 1947, Mr. Arthur Charlie Gardner M.P.S., 12 Kingsholm Road, Gloucester, aged fifty-three.

GREENHILL.—Recently, Mr. James Donaldson Greenhill, M.P.S., 12 Gillburn Road, Downfield, aged eighty-four. A native of Glasgow, Mr. Greenhill started his career in Buckhaven, Fife, and had been in business in Dundee for over half a century. His shop at 73 Overgate, with its sarsaparilla parlour, was well known to customers from a wide area. He was a prominent dog exhibitor and a former member of Dundee Canine Club. He is survived by his widow and an only son, Andrew.

Kent.—Recently, Mr. Benjamin John Kent, M.P.S., Lindis Mead, 51 Spilsby Road, Boston, Lincs, aged ninety-one. A native of Boston, Mr. Kent served his apprenticeship locally to Mr. Thompson Allin. He qualified in 1878 and subsequently spent three years in Malta. After his marriage in 1884 he was for two years at Devonport before returning to Boston in 1886, to go into partnership with Mr. Albert Grimble, with whom he took over the business of his former apprentice-master.

PARROTT.—At Andover, Hants, memorial hospital on December 22, 1947, Mr. George Osborne Parrott, 21 Strawberry Hill Road,

Twickenham, Middlesex, aged sixty-nine Mr. Parrott was well known to chemists and to the medical and dental professions throughout the country as representative of the Chas. H. Phillips Chemical Co., Ltd., whom he joined in 1908 after previous service with Parke Davis & Co. He will also be remembered as a founder member of the St. Vincent Association. Mr. Parrott was a keen Freemason, attaining London Grand Rank, initiated into the Valentia Lodge No. 3097. He became a Founder and Past-Master of the Kayhough Lodge, No. 3576, and Companion of the Corona Chapter, No. 2795.

Preston-Jackson.—On December 13, Mr. John William Andrew Preston-Jackson, Heath's Pharmacy, St. Mary Cray, Kent. Mr. Preston-Jackson qualified in 1906.

ROONEY.—At Dr. Steeven's hospital, Dublin, Eire, on December 27. 1947. Mr. Patrick J. Rooney, 1 Mayfield Road, Terenure, Dublin. Mr. Rooney, who qual fied as a chemist and druggist in Great Britain in 1902, was appointed pharmacist to the Guinness brewery pharmacy in 1910, subsequently becoming principal pharmacist. Mr. Rooney saw the medical department and pharmacy at the brewery develop to become one of the finest industrial medical welfare departments in Ireland, with up to 400 scripts dispensed daily. The pharmacy was responsible for keeping stocked first-aid stations throughout the brewery. A daughter, Miss Clare Anne Rooney, is a Licentiate of the Pharmaceutical Society of Ireland. The interment, which took place from St. Joseph's Church, Terenure, to Templeogue, was largely attended.

Turner.—On December 9. Canon John Hudspith Turner, Moffet Inlet, Baffin Land, North West Territory, Canada. Canon Turner served his apprenticeship with Mr. G. W. Hales, M.P.S., Ipswich, and studied at the Bath and West of England College of Pharmacy. He trained at the Bible Churchmen's College, Bristol, for service in the mission field, and having qualified as a chemist and druggist in March 1929 emigrated to Canada and was ordained there in the same year. He was appointed to Pond's Inlet, Baffin Land, the most northerly British parish in the world. Canon Turner was accidentally shot. He is survived by his widow and two daughters, who have returned to England.

#### LEGAL REPORTS

Pharmacy Act Fines. — Poultry Supplies, Ltd., Bentinck Buildings, Wheeler Gate, appeared at Nottingham summons court, recently, on eight summonses relating to the sale of poisons. They were fined £1 on each charge, with £4 4s. costs.

Deficient Spirits of Nitre.—Percy Wilfred Hobbs, M.P.S., 544 Filton Avenue, Northville, Bristol, was fined £5 at Staple Hill magistrates' court recently, and ordered to pay £6 4s., costs for selling sweet spirits of nitre deficient in ethylnitrite to the extent of 40.8 p.c. He

pleaded guilty.

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Alleged Forged Prescriptions.-In the Dublin district court on December 31, 1947, John Dudley Cotter, auctioneer, 53 Clonturk Park, Drumcondra, Dublin, appeared on a series of charges concerning the alleged forging of medical and veterinary prescriptions, and of uttering them to pharmaceutical chemists in Dublin, thereby obtaining morphine sulphate, hydrochloride, etc., on dates between May 1946 and November 1947. A detectiveofficer said that, after being cautioned, made statement admitting a that he wrote and signed prescriptions for morphine for Mrs. M. F. Cotter, 31 Old Cabra Road, on July 22 and 25, 1947. The prescription written on July 25 was given to his wife, who obtained the drugs from Messrs. Laird, Upper O'Connell Street, Dublin. He used the morphine himself and his wife did not know what he had written on the prescription, which he told her was made out by a Dr. White, Phibsboro', for his mother. Paul J. Duggan, Ph.C., manager of a pharmacy at 2 Upper Drumcondra Road, Dublin, stated that he gave twenty 4-gr. tablets of morphine sulphate to Cotter on a prescription bearing the name of Dr. Ryan. Next morning he spoke on the telephone to Dr. Ryan, and as a result of that conversation sent the prescription to the doctor. Dr. Ryan stated in evidence that he had never seen the prescription until it was shown to him. It was written on his notepaper, but neither the writing nor the signature was his. Dr. E. White also gave evidence; the signature on prescriptions shown to him, he said, was Evidence of supplying morphine hydrochloride and sulphate was given by Messrs. Charles G. Donelan, M.P.S.I., Collins Avenue, Dublin, and M. D. Walsh, M.P.S.I., Phibsboro' Road, Dublin. further hearing was adjourned, bail being allowed.

#### **PERSONALITIES**

MRS. J. K. IRVINE, M.B.E. (president of the Pharmaceutical Society) was prevented by illness from attending the Council meeting on January 7.

Mr. L. G. Griffiths Porter, M.P.S., Plympton, Devon, is giving a course of lectures on "Poisons, Plants and People," to the Plymouth Branch of the Workers' Educational Association, commencing on January 16.

Mr. W. T. STOYLE, M.P.S., Beckenham, Kent, was the author of a letter published in the "Daily Graphic" on January 6, protesting against a statement by a previous correspondent that doctors had to differentiate in their prescribing between N.H.I. patients and others.

Mr. JOHN F. CARTER, who has relinquished buying proprietary toilet prepara-



tions for Boots Pure Drug Co., Ltd., was presented with a radio set recently at a luncheon held in London in his honour by his friends in the toilet and cosmetics trade. Representatives of some thirty manufacturers attended the luncheon, and the presentation was made by Mr. E. L. Merry (J. & E. Atkinson, Ltd.). Mr. Carter continues as buyer for medicinal products, etc.

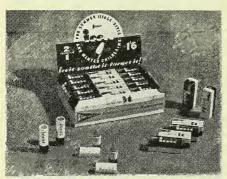
MR. P. G. MARSHALL, D.Sc., F.R.I.C., who has been appointed to a post with British Schering Manufacturing Laboratories, Ltd. (see p. 42), graduated from Leeds University, and has held appointments at the London Hospital and in the universities of Leeds and Edinburgh. In 1934 he joined The British Drug Houses, Ltd., as head of the department producing sex-hormones and allied compounds. Dr. Marshall is well known in scientific circles, and his publications include articles on chemical, biochemical and physiological subjects.

## TRADE NOTES

Addition to Range. — Brobat Distributors, Ltd., 241 Main Road, Sidcup, Kent, have introduced Brobat disinfectant germicide, issued in screw-capped glass bottles.

Counter Display.—A display card holding one doz. Vick inhaler is available from the London distributors of this preparation, J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.I.

Dual-purpose Proprietary.—Iceit, a preparation issued by A. E. Stannard, Ltd., 3 Eastgate, Banstead, Surrey, is available in



display outers. The speciality was introduced as a dual-purpose remedy for chilblains and midge bites in order to lessen the risk of stock deterioration.

Showcard and Leaflet. — H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2, have issued a new hanging showcard and small leaflet dealing with the use of Metaldehyde solid fuel as a slug and snail killer. Copies will be sent to any chemist on request.

Distribution in the Midlands. — J. J. Wharmby & Sons, Ltd., Wood Street, Mansfield, are in a position to meet inquiries from chemists in Midlands areas for proprietary preparations and chemists' sundries. A representative will call on receipt by the company of a postcard request.

Now D.D.A.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.3, issue a reminder that Physeptone was brought within the Dangerous Drugs Act and regulations on January 1. Chemists holding stocks should apply to the company for slip labels to meet the official labelling requirements, stating the number required for each product.

Incorrect Prices in Advertisements.— Incorrect prices for Carovit appeared in an announcement by CONTINENTAL LABORATORIES, LTD., in the January issue of the C. & D. The correct prices are 3s. 8½d. for 100 tablets and 10s. 5½d. for 300 tablets.—Evan Williams Co., LTD., state that a wrong price appeared in an announcement for their preparation liquid Tintenna in the December 27 issue of The Chemist and Druggist. The correct price is 24s. per doz., plus tax.

Press Advertising. — H. W. CARTER & Co., Ltd., The Old Refinery, Bristol, 2, are issuing advertisements to the public asking them to return empty bottles of Ribena blackcurrant syrup in order that supplies may be maintained.—A national advertising campaign for the 1 in, x 1 yd, size of Elastoplast elastic adhesive plasters has been undertaken by T. J. SMITH & NEPHEW, Ltd., Neptune Works, Hull.

Omitted from Advertisement. — The prestige within the trade of Potter & Clarke, Ltd., 60 Artillery Lane, London, E.1, is probably high enough to render the inclusion of their famous Winged Lion trade mark in an advertisement a sufficient identification. The omission of the name of the company from a recent announcement in these pages was, however, unintentional, and due to a printer's oversight.

1948 Calendars.—A month-to-the-page tear-off calendar giving white figures on a black background has been issued by Box-foldia, Ltd., carton manufacturers, Bournbrook, Birmingham. — The Clapton Wholesale Co., 159 Lower Clapton Road, London, E.5, have a number of 1948 calendars available for customers who have not yet received one. — A four-months-to-the page calendar has been issued by J. F. Mac-farlan & Co., Boreham Wood, Herts, and Edinburgh.

Trade Film Shows. — Secretaries of local associations are invited by Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, to apply on behalf of any members for invitations to attend any of a number of local trade showings, which for the most part are arranged to take place in the late afternoon or evening. It is pointed out that admission is by invitation only. Local secretaries sending on the applications are asked to give the names and business addresses of members requiring tickets. The full time-table is:—BIRMING-HAM, February 24; BRADFORD, March 10; BRIGHTON, February 11; BOURNEMOUTH,

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Pebruary 5 and 6; Cambridge, February 27; Cardiff, March 3; Coventry, February 25; Derby, February 23; Exeter, February 3; Grimsby, March 12; Hull, March 11; Leeds, March 9; Leicester, February 26; Maidstone, February 12; Middlesbrough, March 8; Newport, March 2; Plymouth, February 4; Portsmouth, February 9; Reading, February 13; Southampton, February 10; Stokedn-Trent, March 5; Swansea, March 1; Torquay, February 2; Wolverhampton, March 4.

Window Display Offer.—A colourful window display (illustrated) is available on a two-weeks display basis from Stephen Matthews & Co., Ltd., 19 Farring-



don Street, Lon-E.C.4, don. entire show, including all materials, being supplied and installed by expert window dres-The display can be arranged to fit anv window from 3 ft. wide. Applications should be made to the company, stating approximate date of intended display.

## Proprietary Articles Trade Association

Additions to Protected List (Part 1). — Tone Pharmaceuticals, Ltd. (per L. A. Gray.) Flam cough mixture, 16s. 4d. doz., tax 33\frac{1}{2} per cent.,

inclusive retail price 2s. 6d.

Alterations to List (Part 1).—Bell & Sons, Ltd., George Bell's blood-purifying salts for dogs, ten powders, 4s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 7\frac{1}{2}d.; thirty, 11s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 8d.; cat powders, ten, 4s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 7\frac{1}{2}d.; thirty, 11s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 8d.

Bengue & Co., Ltd., Bengue's balsam, 15s. 9d. doz., tax 33\frac{1}{3} per cent., i.r.p. 2s. 3d.; 26s. 2d. doz., tax 33\frac{1}{3} per cent., i.r.p. 3s. 9d.; Bengue's Eupurgo, 12s. 6d. doz. tax 32\frac{1}{3} per cent. i.r.p. 2s.

12s. 6d. doz., tax 33\frac{1}{3} per cent., i.r.p. 2s.

Francis Cupiss, Ltd., One doz. constitution balls
now 20s. instead of two doz. for 38s., excluding
purchase tax. All other basic prices unchanged.

E.N.T. Mfg. Co., Ltd., E.N.T. powders, ten, 11s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 9d.; twenty-two, 22s. 6d. doz., tax 33\frac{1}{2} per cent., i.r.p. 3s. 6d.; capsules, twenty, 11s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 9d.

Hirst, Brooke & Hirst, Ltd., Smedley's paste, 175. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s. 6d.; 275. 9d. doz., tax 33\frac{1}{2} per cent., i.r.p. 4s.; Lascelles pills, 17s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s. 6d.; 44s. 1od. doz., tax 33\frac{1}{2} per cent., i.r.p. 6s. 6d.; only two sizes of each preparation now supplied.

J. G. Ingram & Son, Ltd., Spiral reinforced green-band teats and valves:—Teats, 60s. gross, i.r.p. 7d.; three doz., 57s. gross; valves, 44s. 6d. gross, i.r.p. 5½d. (exempt from tax). Increased prices for enemas, January 1:—Perfex, 51s. 9d. doz., 5s. 1od.; Zenith, 55s. doz., 6s. 3d.; Utilema, 55s. doz., 6s. 3d.; Atalanta, 58s. doz., 6s. 6d.; Zebina, 63s. doz., 7s. 3d.; Steri'endum, 64s. doz., 7s. 6d.; Eclipse, 78s. 6d. doz., 9s.; Adaptable, 85s. doz., 9s. 9d. (exempt from tax).

C. & G. Kearsley, Ltd., Increased prices January 1, Widow Welch's pills, 9s. 9d. doz., tax 33\frac{1}{3} per cent., i.r.p. 1s. 5d.; 25s. doz., tax 33\frac{1}{3} per cent., i.r.p. 3s. 3\frac{1}{3}d. (large size supplied thirteen to doz.).

Thos. Kerfoot & Co., Ltd., Pastilles, marble series, 2-oz., 9s. 6d. doz., tax 33\frac{1}{3} per cent., i.r.p. 1s. 6d.

Eli Lilly & Co., Ltd., Bilron Pulvules, No. 241, 40's, 72s. doz., tax  $33\frac{1}{3}$  per cent., i.r.p. 11s.; 500's, 60s. each., tax  $33\frac{1}{3}$  per cent., i.r.p. 11os.

Liqufruta Laboratory, Liqufruta Medica, 12-02., 32s. 3d. doz., tax 33\frac{1}{3} per cent., i.r.p. 4s. 6d.

Milton Antiseptic, Ltd., Milton Antiseptic, 3-oz., 8s. doz., tax 33½ per cent., i.r.p. 1s. 1½d. 8-oz., 16s. doz., tax 33½ per cent., i.r.p. 2s. 2½d.; winchester, 4os. doz., tax 33½ per cent., i.r.p. 7s. 9d.; ½-gall., 4os. doz., tax 33½ per cent., i.r.p. 1os. 3d.; 1-gall., 64s. doz., tax 33½ per cent., i.r.p. 14s. 1td.

Moore Medicinal Products, Ltd., Brovon inhalant, 1-oz., 108s. doz., tax 33\frac{1}{2} per cent., i.r.p. 16s. 6d.; 2-oz., 212s. doz., tax 33\frac{1}{2} per cent., i.r.p. 32s. 1d.; 4-oz., 408s. doz., tax 33\frac{1}{2} per cent., i.r.p. 62s. 4d.; tablets, 100's, 96s. doz., tax 33\frac{1}{2} per cent., i.r.p. 14s. 8d.; Codasphen analgesic tablets (extra rapid), 12s. 4d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 10\frac{1}{2}d.; Moneeda laxative fruit cubes, cartons of six, 6s. 6d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s.; cartons of eighteen, 16s. 4d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s. 6d.; Morovin throat tablets, 11s. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 8d.; Nostex inhalant, 24s. doz., tax 33\frac{1}{2} per cent., i.r.p. 3s. 8d.

Peat Products (Sphagnol), Ltd., Sphagnol 10 per cent. suppositories, 12's, 16s. 10½d. doz., tax 33½ per cent., i.r.p. 2s. 6d.

John Steedman & Co. (Correction), Northern Ireland. The retail price of Steedman's powders when sold lose is 2d. each, and not two for 3½d. as previously stated.

Wigglesworth, Ltd., Opas tablets. Manufacturers are withdrawing 4-oz. carton and introducing 6 oz. sealed tin. Supplies of the new pack are hoped for during January. Opas tablets, 6-oz. tin, 14s. 6d. doz., tax 33\frac{1}{3} per cent., i.r.p. 2s. 3d.; one doz.,

13s. 6d. doz.

Wright, Layman & Umney, Ltd., Blacfrutex, 10s. 6d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 9d.; Garlixa, small, 8s. 6d. doz., tax 33\frac{1}{2} per cent., i.r.p. 1s. 7d.; large, 14s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s. 7d. Wright's malt extract with cod-liver oil and iron, 1-lb., 20s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s. 8\frac{1}{2}d. 2-lb., 3\frac{1}{8}s. doz., tax 33\frac{1}{2} per cent., i.r.p. 5s. 1\frac{1}{2}d.; Wright's saline, 13s. 3d. doz., tax 33\frac{1}{2} per cent., i.r.p. 2s.; 2zs. 9d. doz., tax 33\frac{1}{2} per cent., i.r.p. 10s. 6d.; Wright's lysol, 2-oz., 5s. 6d. doz. (exempt from tax), 8d.; 4-oz., 7s. 3d. doz. (exempt from tax), 1s.; 1-gall., 144s. doz. (exempt from tax), 1s.; 1-gall., 144s.

## PHARMACY IN HUNGARY TODAY

Mr. George Erényi, M.Ph., a Hungarian delegate to the International Chemical Congress, London, 1947 (see C. & D., 1947. II. 195), describes present conditions in the practice of pharmacy in his country

NE of the greatest differences between the practice of pharmacy in Hungary and Britain is, perhaps, that in my country pharmacy is closely controlled by the State. The opening of chemists' shops, for example, is limited by the Ministry of Public Health, and permission for

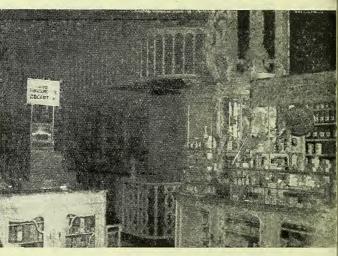
new establishments is not given where undue competition would be caused.

great Another difference is that medicines alone are responsible for some 98 per cent. of the business of pharmacies, while cosmetics, perfumes and medical sundries make up only about 2 per cent. Toilet requirements, cosmetics and surgical sunreach the dries public chiefly through specialist shops which sell one or other of these types of goods, but no medi-Chemists'

prices throughout the country conform to a schedule drawn up by the Office of Price Control of the Hungarian Government.

Retail pharmacists are forbidden to recommend medicines to customers, and advertisement of all medicines is restricted to technical journals. Chiefly as a result of these restrictions practically all of the so-called "popular proprietaries" have disappeared. The amount of extempore dispensing however done by chemists in Hungary is not so much greater than that in England, on account of large-scale pre-scribing of proprietary tablets and ampoules, but in an effort to regain some of the dispensing which has been lost in this way, a list of formulas with easily recognised names has been published by the Institute of Public Health and made uniform throughout the country. The regaining of this type of work was motivated not merely by financial considerations, but

also by a strong love of the profession. This vocational spirit has been helped by the Pharmaceutical Institute of the University of Budapest which, among many other activities, has organised evening revision courses for pharmacists; these have been well received.



The interior of a typical pharmacy in Budapest

Training

In Hungary, Universities alone are responsible for the training of pharmacists. After matriculation at the age of eighteen the student is required to undergo a fiveyear course of study, including one year of retail apprenticeship taken at the end of the first year. Passing the prescribed examination leads to a "Diploma in Pharmacy," but before the student is eligible to practise as a pharmacist he has to receive another year's retail experience. higher study he may train for his Doctorate of Pharmacy, which entails specialising in a particular subject, preparing a thesis, and passing an examination in two other chosen subjects. There are, in addition, higher The education course is qualifications. designed to prepare the students for retail as well as manufacturing and other types of pharmacy, and efforts are constantly being made to improve the standard of

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will be resp nedical store and control training his training. It is difficult to understand why the Hungarian Diploma in Pharmacy, in spite of its high academic level, is not recognised by the pharmaceutical or univer-

sity authorities in Great Britain.

Difficulties have been experienced recently in obtaining medicinal preparations, and there is little contact at present with manufacturing chemists in the Western countries of Europe. Although problems in manufacturing have arisen in Hungary, many of the companies in the country are well forward in this field. Methyluracil, for example, was being manufactured in

Hungary within the first year after the war. 1948, the centenary of the Hungarian War of Independence, will be marked with a cultural exhibition in Budapest, at which the profession of pharmacy will be represented. Pharmacists in Hungary wish to show the importance of their profession, which they feel has worked up to now in silence and has not received the appreciation it deserves. Pharmacists in Hungary wish to strengthen their international professional connections and I am sure extend, in particular, a hand of friendship to their British colleagues.

## NOTES FOR INTENDING EMIGRANTS

(Concluded from The Chemist and Druggist, December 13, 1947, p. 729)

### 6. Africa

#### Pioneering in East Africa

A unique opportunity for a small number of pharmacists who have a zest for pioneering in almost uninhabited country, is provided in the British Government's scheme for the production of groundnuts in East and Central Africa. Pharmacists employed in the scheme will have ample opportunity for using their particular knowledge and, in addition, they will be expected to take an interest, with medical and other workers, in ensuring the success of the social and welfare aims of the sponsors. "Progressive health, nutrition, housing, welfare and labour policies" are to be integral parts of the scheme, and it is hoped to establish eventually "a model of better general standards of living for the African people." (See Cmd. 7030.)

The scheme is being begun in Tangan-yika, but Kenya and Northern Rhodesia have been suggested for further development. In Tanganyika there are at present three development areas, with a central stores at Dar-es-Salaam, where one pharmacist is to be stationed. The stores will supply a hospital in each of the development areas where pharmacists are also to be stationed, and the hospitals are to form the nuclei of the health and medical services of the areas. Each area will contain a number of "units" or "villages," in each of which a health centre run by African workers will be established. The pharmacist in each area hospital will be responsible for supplying the medical requirements of the centres. In addition, he will be responsible for all of the purely medical stores at his hospital, for organising and controlling the dispensary, and for training his staff of African assistants.

Workers are now being accommodated mainly in tents but later permanent dwellings are to be built, and at present all trained hospital workers, who include physicians, surgeons, dentists, nursing sisters, pharmacists, radiographers and others, share the same mess. Pharmacists receive a salary commencing at £600, plus a married separation allowance. Families will be unable to go to Tanganyika for about eighteen months, but then the fare will be paid for wives and all children under sixteen years of age. Leave is given every three years or so, as well as on first appointment.

The scheme is being managed temporarily by the Government's agents, The United Africa Co. (Managing Agents), Unilever House, London, E.C.4, but during 1948 it will be taken over by a Government-appointed Overseas Food Corporation.

#### South Africa

The South African Pharmacy Board has a reciprocal arrangement concerning qualification with the Pharmaceutical Society of Great Britain. To become registered as a chemist and druggist in South Africa a pharmacist from Britain must first take up residence in the Dominion. He then has to submit to the Registrar of the Board, P.O. Box 205, Pretoria, his diploma or certificate, and his certificate of registration in Britain, together with a registration fee of £12 10s. The address of the Pharmaceutical Society of South Africa is P.O. Box 6290, Johannesburg.

### 7. U.S.S.R.

At present no British immigrants can be accepted by the U.S.S.R. on account of housing difficulties, but this position is expected to be changed shortly.

## RECENT ADVANCES IN PHARMACOLOGY

In an address given recently to the London Branch of the Guild of Public Pharmacists, Professor G. Buttle (College of the Pharmaceutical Society) said that the anti-histamine group of drugs was particularly important in the treatment of urticaria and similar conditions. Urticaria, which was caused by the liberation of histamine in the skin, was speedily relieved by an injection of an anti-histamine drug. A partial resemblance in the molecular structure of histamine and certain anti-histamine substances could be seen in the formulæ given below:

Pyribenzamine was a particularly recent compound to be added to the list of antihistamine drugs. The drugs were effective to some extent in hay fever but not in asthma, while a further disadvantage was that they did not block the effect of histamine on the secretion of gastric juice,

#### Anti-shock Drugs

Drugs which blocked the symptoms of shock formed a new series of compounds, and if early results could be confirmed, they would become important. They were suitable for treating shock from surgical or accidental causes. To the group belonged the diethyl acetamides, the structure of which could be represented as follows: Alkyl—C.ON.(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>; and polyvinyl pyrrolidon, a substance investigated by the Germans during the war, and called by them Periston.

Dicumoral (see next column) had been found to prevent blood-clot formation by antagonising vitamin K in the formation of prothrombin, and the compound was being used in thrombosis, embolism and similar conditions. It had advantages over heparin, for it could be taken orally and was cheaper. Also its action was more prolonged, but this gave rise to a certain danger in its use, and daily bleeding time observations should be made. The isolation of the substance followed observations in America that cattle fed principally on sweet clover developed hæmorrhage.

Sweet clover was then examined and the compound isolated.

#### Chemotherapy of Cancer

Progress, though limited, had been made in the treatment of cancer and allied diseases by chemotherapeutic agents. The so-called "nitrogen mustards" such as the dichlorethylamines modified Hodgkins disease, reduction of the glands in the neck being among the improvements produced. The effect wore off, however, after about three courses of treatment. The compounds also had a pronounced effect on bronchial carcinoma, and after two doses equal to half the lethal dose of mice (adjusted in proportion to the patients' weights) patients became fatter, ate better, and in a few cases a long period of remission had been observed. The compounds had no effect on other types of cancer. Propyl dichlorethylamine, C3 H7 N (CH2 CH2 Cl)2 had proved to be the least toxic of the compounds examined.

#### Dicumoral

In cancer of the prostate, stilbœstrol gave six or seven years extra life, but the treatment was accompanied by side reactions such as enlargement of the breasts. Urethane CO(NH<sub>2</sub>)OC<sub>2</sub>H<sub>5</sub> ameliorated leucæmia, a disease which might be regarded as cancer of the white blood cells. It was more effective in myelogenous than in lymphatic leucæmia.

#### Developments in Toxicology

It had been found that SH groups neutralised the toxic effect of heavy metals, and British Anti Lewisite (BAL), a compound which contained two SH groups,

was meeting with success in the treatment of poisoning due to arsenic, mercury, cadmium fumes and zinc, while its value in the treatment of gold poisoning was also being investigated. BAL, in its detoxicating action, at first forms a compound with mercury, which in turn reacts with more BAL to form a second compound which is soluble, stable and excretable. The action

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Diisopropyl fluorophosphonate (commonly known as D.F.P.), a substance that had been intended for use as a war gas, strongly inhibited cholinesterase, an enzyme which broke down acetylcholine, and a dose of only a fraction of a milligram produced a large physiological change. The compound had possible uses in myasthenia gravis, a disease in which a curarelike substance was produced at the nerve endings. It was possible that compounds of this type might have a more prolonged action than Prostigmin.

Alphanaphthyl thiourea, a rat poison, was interesting pharmacologically because its action was so specific, its toxicity to the common rat, for example, being 1,000 times that to the fowl. The specificity was

discovered while investigating the phenomenon that certain human beings could taste phenyl thiourea and others not, a little phenyl thiourea being placed on the tongues of test rats, with fatal results.

Myanesin, a substance which inhibits the motor nerve cells of the anterior horn of the spinal cord, was being used in surgery in a similar way to curare. It also had uses in spastic paraplegia (increased knee jerks, etc.), and in reducing the convulsions of strychnine poisoning.

#### Penicillin Therapy

The discovery that coronamide delayed the excretion of penicillin so that the dose could be reduced to a fifth or sixth and the same therapeutic effect be obtained, might result in a considerable saving of this valuable drug.

## DEVELOPMENTS IN HÆMATOLOGY

Addressing a recent meeting of the Hendon and Edgware Branch of the Pharmaceutical Society on "Some Recent Developments in Hæmatology," Mr. C. Beaven (Parke, Davis & Co.) said the term hæmatology, in its broadest sense, embraced all aspects of the blood including its physiology, chemistry and pathology. Considerable research in recent years had led to striking developments in the scope and technique of blood analysis and today clinicians frequently required, as aids to diagnosis and prognosis, such determinations as viscosity, mean corpuscular volume, sedimentation rate, colour index, prothrombin time and erythrocyte fragility.

The experiments of Tiselius in Sweden, employing the ultra-centrifuge and the electrophoretic tube, had added greatly to the knowledge of plasma proteins. American workers, under Dr. E. J. Cohn, had developed the work of Tiselius, and devised a method of separating various fractions of blood plasma which, applied to large scale production, had made available several new blood fractions, e.g. serum albumin (used in shock therapy), gamma globulin (for the prevention and modification of measles) and anti-hæmophilic globulin (for the treatment of hæmophilia).

Mr. Beaven then explained, with the aid of lantern slides, the development of blood transfusion and improvements which had been achieved in the preservation and storage of blood, the ABO and MN blood groups and the principles governing their inheritance, the medico-legal application of the blood groups, the Rhesus factor

and its application to reactions occurring after repeated blood transfusion and to hæmolytic disease of the newborn. After a brief account of the physiology of normal blood formation and its modification in microcytic and macrocytic anæmias, the speaker discussed the value of iron and liver therapy and the researches which had led to the isolation and synthesis of folic acid. Folic acid, he said, had been successfully used in the treatment of all forms of macrocytic anæmia and except in Addisonian pernicious anæmia, the results had been equal to those obtained by the use of liver extract. In Addisonian pernicious anæmia it had been shown that, although folic acid restored the blood picture to normal, it did not relieve the neurological symptoms when present. The suggestion had been made that pernicious anæmia patients maintained on folic acid were liable to neural involvement.

Psychological Effect.—Sir Jack Drummond held that no concrete facts had been produced in support of the claim that the country was undernourished. He recalled that in 1940 when it was announced that calcium was to be added to flour, many doctors, some of them distinguished, immediately wrote and continued for months to write, complaining that this addition was causing illness. Yet actually, owing to supply difficulties, calcium was not added until eighteen months later, by which time all complaints had ceased, never to be resumed.—Report of a recent Hunterian Society debate in the "Lancet."

January 10,

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JANUARY 10, 1948 VOL. CXLIX

No. 3542

## Britain in World Pharmacy

Through these columns recently we have been able to view, as it were from an armchair or the dispensary desk, the conditions of pharmacists in many other parts of the world. As the events of 1948-with, for example, its introduction of the National Health Service and a possible decision on pharmaceutical education — are likely to seal the fate of pharmacy in Britain for many years, it seems profitable at the beginning of another year to reflect on how conditions in pharmacy in Britain compare with those in other countries Pharmaceutical practice throughout the world appears in certain ways to be divided into a western school, as exemplified in the United States, and an eastern school, as exemplified in many countries on the Continent of Europe, with Britain standing geographically, as well as pharmaceutically, between the two.

#### Conditions in America

In the United States, pharmacists generally are free to open shops where they please; education is not uniform, and in many pharmacies the dispensing department occupies a position secondary to soda fountains, refreshment counters, lunch bars, and fancy goods stalls. The pharmacist, however, charges well for his pharmaceutical services and has considerable respect as a counsellor and friend, especially in the smaller towns. Moreover, in the United States, as in Canada, pharmacists are becoming increasingly aware of the need for sound training, and curricula of the various States are usually based on three or four

years' study in local colleges or universities, followed by graduation with a science degree. The establishment of an increasing number of "prescription" pharmacies, without soda fountains, is another welcome development.

#### Examples from the Continent

On the Continent the number of pharmacies is often restricted by licence, standards of training are high (frequently requiring several years in one of the ancient universities), sales in retail premises consist predominantly of medicines, and there is little doubt that the pharmacist is classed among the professional workers, and that his knowledge and opinion are respected by all sections of the community.

In certain parts of the British Commonwealth the position of pharmacy leaves much to be desired. It is surprising to find, for example, that in New Zealand, a country which is working a forty- to forty-fourhour week for pharmacists, 80 per cent. of students receive their training by correspondence course. The position in certain remote areas is worse still-in the Bahamas, for example, there is not even a printed syllabus. Commendable initiative is being shown in certain other parts of the Commonwealth. For example, in British Columbia, qualification, which used to be by examination by local pharmacists, is now subject to taking a three-year course at a University.

A new form of pharmaceutical employment may result from the Groundnut Scheme of East Africa where pharmacists will be engaged in a welfare organisation solely on the rights of their specialised knowledge, but, as individuals, will be expected to pull their weight with other professional men in ensuring the success of the enterprise.

Perhaps the greatest obstacle to a free exchange of pharmacists throughout the world which even a short review of world pharmacy reveals, are anomalies in the arrangements for reciprocity of qualification. Even within the same country pharmacists are sometimes restricted to practising in the particular state or province in which they qualified. It is high time world pharmaceutical authorities moved to abolish these "iron fences."

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## Exports to the Colonies to be Resumed

For some few months Colonial Governments, at the request of the Colonial Office in London, have been pursuing a policy of restricting, to the greatest possible extent, imports of all classes of goods from the United Kingdom (see C. & D., November 15, 1947, p. 601). According to a statement now issued by the Colonial Office, this action was taken to restrict imports of all United Kingdom goods which could be sold elsewhere for dollars or for hard currency; were made wholly or largely of dollar materials; or were in short supply and could be used in trade negotiations with other countries in order to obtain essential supplies for this country. The statement goes on to say "it is no part of the Government's policy that Colonial territories should be pressed to practise austerity simply for the sake of austerity." Accordingly Colonial Governments, which, it is pointed out, are given a very wide discretion in the matter of import licensing against the background of the above principles, have been informed that:-

"This whole question has been considered again by the United Kingdom Government in the light of the experience which has been gained since the present policy was adopted, and that as a result some relaxation appears to be possible where this can be done without detriment to the supply and balance of payments position."

Appended to the Colonial Office statement is a short list of classes of goods, the import of which the Colonial Governments have been asked to continue to restrict for the reasons stated above. This list is composed chiefly of textiles and household goods and does not include any goods of a class connected with any branch of the drug trade, such as toilet preparations, perfumery, photographic goods, pre-packed medicines, etc.

This reversal of policy by the Colonial Office, on which comment would serve no useful purpose, will be welcomed by manufacturers and exporters of drug-trade goods, particularly those concerned with the shipment of pre-packed medicines, cosmetics and toilet preparations who, at the time

the ban was imposed, protested against the Government's action. The sudden and undexpected wholesale ban on exports enforce last autumn interrupted the continuity of shipments to some of Britain's best market and many exporters were put in the embarrassing position of having goods left of their hands which had been ordered beoverseas customers.

The loss of export trade with these im portant markets will be minimised if the Colonial Governments now act, as we be lieve they will do, on the recommendation of the home Government, and withdraw the ban on imports of British goods without de lay and in a comprehensive manner. No doubt manufacturers and exporters home, in co-operation with their agents and representatives in these overseas markets will make any representations to the Colo nial Governments that may be necessary to achieve this end. It is reported that the Government of the Gold Coast has already reopened her markets to the classes of goods with which we are concerned.

The early resumption of trading with the Colonial markets, where British goods have always been favoured, will play its part in ensuring the success of the export drive during 1948.

## A PHARMACIST'S ANTHOLOGY

Boswell: "Do you know, Sir, I have discovered a manufacture to a great extent of what you only piddle at—scraping and drying the peel of oranges. At a place in Newgate-street there is a prodigious quantity prepared, which they sell to the distillers"

JOHNSON: "Sir, I believe they make a higher thing out of them than a spirit; they make what is called orange-butter, the oil of the orange inspissated, which they mix perhaps with common pomatum, and make it fragrant. The oil does not fly off in the drying.

Boswell's footnote to the paragraph: It is suggested to me by an anonymous Annotator on my Work, that the reason why Dr. Johnson collected the peels of squeezed oranges may be found in the 358th Letter in Mrs. Piozzi's collection, where it appears that he recommended "dried orange-peel, finely powdered" as a medicine.

From "The Life of Samuel Johnson, L.L.D.," by James Boswell.

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#### PHARMACISTS IN THE NEW HEALTH SERVICE

N an address to the Preston Branch of the harmaceutical Society recently, Mr. J. A. peed (Clerk to the Lancashire Insurance lommittee) reviewed the history of nsurance Act dispensing and discussed ossibilities under the new service. The ollowing is a brief abstract of his renarks:-

narks:—

At the inception of medical benefit under he National Health Insurance Act it was contemplated that the tariff prices for dation letween the medical and pharmaceutical professions either centrally or ocally. During the period which immediately preceded the inception of medical profession was the propagated to take part in any such period. not prepared to take part in any such negonot prepared to take part in any such nego-diet, tiations. The doctors were approached with the suggestion that the 2s. should be added to their fund, out of which the drug charges would then become a first charge. The Commissioners had arrived at the conclusion that such a system was sound in principle and administratively convenient, and that risk of loss on the deal was theothe retical except in the case of sheer extravathe gance. Ultimately the Treasury undertook the risk of guaranteeing the solvency of the Drug Fund. Up went the cost of medicines.

#### No Dearth of Pharmacists

Unlike other professions associated with medical treatment, pharmacy suffers from no dearth of members. It is only necessary to make "pure" pharmacy sufficiently profitable to attract at once all the manpower needed. 50 per cent, of the medi-cines prescribed nowadays are proprietary compounds calling for minimum technical manipulation on the part of the pharmacist, who tends or seeks to become more of a pharmaceutical adviser than a mixer of drugs. The order of magnitude of a chemist's classified sales appears to be:-

Proprietary medicines other than N.H.I.; non-proprietary medicines other than N.H.I.; toilet requisites and chemists' sundries; N.H.I. dispensing; photography; private dispensing; miscellaneous; optical. Two-thirds of the shops are owned by pharmacists as individuals. In Preston the number of chemists' shops is forty-six; the average number of N.H.I. prescriptions per shop per annum is 6,500; and the average total payment per chemist per annum is £400. The average total turnover is £2,000-£3,000 annually, and the average population per contractor is 2,480.

In the new National Health Service there will be a sudden pressure of dispensing work and possibly a marked (temporary?) diminution of self-medication. I think the Lancashire record of up-to-date chemists' cheques dispatched on the first Monday of each month will not be broken; but I doubt if the present pricing methods will stand the strain, owing to the shortage of trained pricing staffs. Some scheme of at least part-averaging will doubtless be devised.

Under the new scheme dispensing by doctors in urban districts will diminish to vanishing point, so that in a number of new areas the opening of a chemist's shop will for the first time become a paying proposition. If country doctors are to be denied the right to dispense for rural patients, then it will cost much more if chemists undertake the work. If chemists are to monopolise rural dispensing they must be prepared to show reason why this would be in the best interests of the patients.

#### "Out of Hours" Dispensing

Where an insurance practitioner wishes to be relieved of the necessity to afford night visits in cases of emergency to persons not on his panel or to have patients assigned to him, he will have to agree to forego a percentage of the standard capitation fee There appears for his accepted patients. no reason why every chemist's shop should not dispense N.H.I. prescriptions up to the hour locally fixed for the closing of shops generally under the Shops Act. After that hour there should be a relatively small and restricted panel of chemists in each built-up area who would keep open until all the local surgeries were closed and who would amongst themselves arrange for an even more restricted rota service for late-night, Sunday, half-closing day and holiday dispensing. Chemists on the restricted panel would receive an increased dispensing fee.

#### Health Centres

A population of 1,000,000 insured persons needs only 500 "urgent" prescriptions per annum, so that the number which could be expected for a population of 15 000 would be about eight. They would be so relatively rare that, if special provision were made at health centres, the dispensary key probably would be lost in the intervals and certainly the retention of the services of a pharmacist "after normal hours" would not be justified.

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## TURKISH LIQUIDAMBAR

By Malcolm Burr, D.Sc.

STYRAX, or storax, is a balsam obtained by wounding the bark of Liquidambar orientalis, a tree found in the South-west of Turkey. American styrax, or sweet gum, which resembles the official drug in constituents, is obtained from an

allied species, L. styraciflua, and has been used as a substitute for the Turkish product.

Not in the whole realm of botany is there a name more redolent of romance than that of the famous tree liquidambar, which all have heard of but few have seen. This aura is not undeserved for its claims upon our attention are varied. John Ray, in "Historia Plantarum," published in 1636, was the first to describe it in a European language. He had some specimens brought home by Spaniards from Mexico and he called it Styrax liquida. Thirteen years later we find

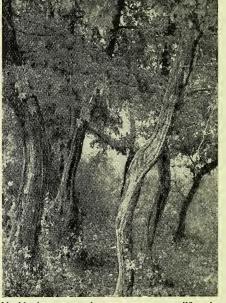
the first use of the beautiful modern name, invented by a Spanish writer, F. Hernandez, when describing a wonderful tree that grew in Mexico. It aroused a good deal of attention in Europe, where it was brought by colonists from the southern part of North America (for it grows as far north as Connecticut) as well as by the Spaniards. Towards the close of the seventeenth century, Bishop Crompton, who was greatly interested in the naturalisation of plants and looked to the New World to enrich the flora of the old, sent one, John Bannister, to look for it, who brought a specimen home to Fulham.

#### American Sweet Gum

In the United States it is a familiar tree with some economic importance. It is known there variously as red gum, sweet

gum, and by the queer name of bilsted; also as red walnut. It is used extensively in veneers and, since it takes stain readily, as a substitute for ebony for frames of pictures and mirrors, but it is not suitable for outside work as it does not resist rot. In

1936 the total cut was 600 million bd. ft., valued at \$14 million at the mill. When reached Europe, great virtues were attributed to it, but in this respect it a proved disap-Still, pointment. the faint fragrance remained, slightly aromatic, ethereal, even mystical in those days.



Liquidambar trees in a grove near Köyçeyiz South-west Turkey.

#### Tertiary Survivor

There is another aspect of this interesting tree. It is what botanists call a Tertiary relict. That is to say it is a survivor of that once vast hot forest that in Miocene times encircled the world, about 30 million years ago. Then came tremendous happenings to

the earth, the upthrust of the Himalayas, cutting off the centre of Asia from the moisture of the Indian Ocean and lifting the forests to an altitude they could not endure, exterminated that rich flora over vast areas. Then from the north came the ice, exterminating what was left in the greater part of Europe. There are, however, a few regions where remnants of this forest survive. One is in the South-east of China; another in the southern part of North America. These two regions, so remote from each other, have several features in common, among which is the survival of liquidambar. In China there are two closely allied species, one peculiar to the Island of Formosa, the other to Szechuan. A fourth species survives in one of those queer oases that have lingered on and preserved for us some living fossils.

This oasis is in the flat lands in the outhern part of the vilayet of Mugla n South-western Turkey. There grows iquidambar orientalis. Associated with it re other survivors of that ancient forest, uch as the wild vine, and another climber of the genus Smilax.

It grows like our familiar alder, in damp and sodden places, skirting streams and revelling in bogs. It is found in suitable spots over a wide area in the vilayet, but not in any other district, although favourable conditions are to be found over a wide distance along the coast. Its headquarters are round the beautiful but insalubrious lake of Köyçeyiz. Here it is found in dense thickets and groves on ground that is dry in summer but waterlogged in winter and spring. The tree itself is an attractive one. It grows to a good height and in dense association. The leaf, of a bright, clear green, is deeply incised, resembling that of a plane tree, but half the size. The bark is rough and rugged. It belongs to the family Hamamelidaceae.

It has some economic importance also in Turkey, though only to a small degree owing to the restricted area in which it grows. The juice that is extracted by the process of tapping, having the appearance of a thick, creamy, dull whitish oil [crude styrax], is exported in some quantities. Before the first world war some fifty tons were sent abroad annually, but by 1924 this had dropped to about twelve tons. business seems to have revived, as normal exports before the recent war amounted to fifty tons or even seventy. In those days the price varied between 80 and 100 kurus per kilo. During the war, until 1944, it was 120 kurus, and during 1946-47 it oscillated between 250 and 400 kurus. At present there are no stocks whatever, but if there were the price would be 300-325 kurus. It is hoped to produce from fifty to seventy tons as soon as stocks are available. It can never, however, develop into a big business, as the number of trees is limited. Its chief use is in the manufacture of perfumery and as an ingredient in medicinal soap for use as a remedy against The Turkish name is variously scabies. given as günlük, künlük and künnük. The trade name, styrax, is the original name given by John Ray three hundred years ago. Confusion has arisen from the fact that the same name is now used by botanists for a genus of unrelated shrubs. [100 kurus=1s. 8d. (approx.) Currency was officially devalued by 53 per cent. in September 1946.]

#### VETERINARY ABSTRACTS

An Electric Stethoscope.—A mainsactivated electric stethoscope for veterinary use is described by Longley ("Veterinary Record," 1947.I.190). The instrument comprises chest-piece, in the form of a flat metal cylinder (stethophone), audio-frequency amplifier, and a loudspeaker. In the chest-piece is a piezo-electric crystal microphone sensitive up to 1,500 cycles per second yet "remarkably insensitive" airborne or other extraneous noise. Advantages of the apparatus include its suitability for use in teaching, when heart sounds can be heard by students and teacher at the same time, and for internal auscultation during surgical operation, which is made possible by passing the stethophone, suitably protected, inside the animal.

Camel Sarcoptic Mange.—The gamma isomer of hexachlorocyclohexane (used in the form of Gammexane liquid concentrate), was found by Dray ("Veterinary Record," 1947.II.548) to be effective in the treatment of sarcoptic mange in camels. The condition, which is caused by Sarcoptes scabiei var. cameli, a parasite transmissible to human beings, was treated by smearing every part of the animal with a 0.5 per cent. solution of the compound in a kerosene base. Restlessness, caused possibly by irritation of the kerosene, or by the initial activity of the mange parasite on contact with the active compound, was observed after a few minutes, but ceased after a few hours. One dressing was sufficient to give a complete cure.

Treatment of Sheep Scab. — Work undertaken by Downing ("Veterinary Record," 1947.II.581) since 1944 indicates that benzene hexachloride readily controls psoroptic sheep scab. Preparations used included a fine suspension of benzene hexachloride (commercial mixture of isomers) in water at concentrations of o.1 per cent, for single dippings and 0.05 per cent, for double dippings; an emulsion of equivalent concentration; and a composite dip containing benzene hexachloride Q.I per cent., and DDT, 0.4 per cent. Double dipping at a fourteen-day interval with the 0.05 per cent. benzene hexachloride preparations, and single dippings with the o.i per cent, preparations gave complete control, protection lasting for two to three months. Though DDT alone provided markedly less protection than benzene hexachloride, inclusion of DDT in a suspension of benzene hexachloride was better.

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## RECENT RESEARCH

Action of Folic Acid.—A bone marrow culture method of investigating the effect of folic acid on the maturation of megaloblasts, using sera obtained from patients suffering from pernicious anæmia, has been adopted by St. Rusznyók and others ("Nature," 1947.II.757). From their observations the workers conclude that (a) folic acid acts directly on the megaloblasts; and (b) pernicious anæmia serum contains a substance that inhibits the ripening of megaloblasts.

Penicillin Ointment Bases.—Clymer and Ferlanto ("Journal of the American Pharmaceutical Association," Scientific Edition, 1947.II.211) have investigated the diffusion rates of penicillin from penicillin ointments made with bases of all-grease and oil-inwater emulsion types. Diffusion into saline from tissue bags, and from ointment contained in cups, giving a constant surface area, were measured. No continuity of release of penicillin was found with the all-grease bases, from which there was only a small immediate release, and none thereafter, whereas a water-in-oil emulsion base gave a high continuous release.

Aerosporin: A New Antibiotic. — The isolation of a new antibiotic, stated to be "of possible therapeutic importance," is reported in a letter by Ainsworth and others, from the Wellcome Physiological Research Laboratories ("Nature," 1947. II.263). The substance, which is produced by Bacillus erosporus, is basic and relatively stable, and is active against certain Gram-negative organisms. Pathogens, against which it has proved active in the author's experimental infections in animals, and Hæmophilus pertussis, Eberthella typhosa and Escherichia coli, and, in the veterinary field, Brucella bronchiseptica and E. coli strains of "calf scour."

Insoluble Penicillin Salts .- Experiments on the use of insoluble penicillin salts to delay the fall in penicillin blood levels after injection have been conducted by Monash 1947.II.370). ("Science," Α intramuscular injection into a rabbit of 20,000 units per kilo body weight gave no readable blood level of penicillin after five hours. A similar injection of silver penicillate produced a blood level of 0.08 units per c.c. after 17 hours and 0.03 units after Similar results were obtained 20 hours. with the penicillin salts of iron and mercury and with the penicillin salts of brilliant green and gentian violet. The author suggests that the insoluble salts of penicillin become reactivated in vivo and are more slowly absorbed than the soluble salts normally used.

Absorption by Ointment Constituents. The absorption powers of a number of powders when incorporated in a water soluble ointment base has been investigated by Rae "British Journal of Dermatology and Syphilis," 1947.II.338). Samples of the ointments enclosed in a transparent cellulose film were suspended in water for a constant period, and the amount of absorption calculated. A constant volume of the powders was used, a given weight of zinc oxide being chosen as standard. absorption observed under the experimental conditions varied from 1.7 per cent. for magnesium trisilicate to 4.7 per cent. for aluminium stearate.

Expressed Peach-kernel Oil.—Reviewing progress made in extraction of peach and apricot kernel oils, Bush and Cagan ("Industrial and Engineering Chemistry, 1947.II.1,452) state that scarcity pharmaceutical and other oils, and an improved commercial outlet for the byproduct shells, have resulted in the development of peach-kernel pressing operations on a commercial scale. 21,400 kilos of peach kernels (containing 42.3 per cent. of oil) were pressed at each operation, a yellow oil being produced which could improved in flavour and lightened in colour treatment with activated The final oil had a specific morillonite. gravity of 0.9224, a saponification value of 191.4, an iodine number (Wijs) of 98.1, and an acid value of 0.67.

DDT from Aircraft.—Extensive investigations have been carried out by Du Toit and Kluge in South Africa on the control of the tsetse fly by treating areas of country with DDT spray or smoke emitted carried by apparatus ("Veterinary Record," 1947.II.569). The apparatus finally adopted delivered 0.32 lb. of the para para isomer of DDT per acre of land in the form of smoke, the smoke being generated from a solution in toluene and fuel oil, fed into the exhaust manifolds of the aircraft engines. The best effect was obtained at the time of Although the tsetse maximum leaf-drop. fly had not been eradicated from the area, the incidence was sufficiently low to give hope that the natural mortality of the fly would result in its total elimination.

## **NEW BOOKS**

Historic Morningside.-William Mair, R.S.E., Ph.C.  $8\frac{1}{2} \times 6\frac{1}{2}$  in. Pp. 80. 3s. 6d. JacNiven & Wallace, 138 Princes Street, dinburgh, 2. Better known as a writer on harmaceutical subjects, the author shows imself also in this saga of Edinburgh's sunward suburb," a distinguished hisorian. Handsomely printed on art paper, with a map and reproductions of photoraphs and paintings of local buildings, bejects and personalities ("Lands, Manions and Celebrities"), the book is of more han local appeal. The neighbourhood is one which has produced notable figures in many fields, among them John Napier, whose "Logarithms" appeared in 1614, James Gregory (of "powder" fame), and the surgeon Professor James Syme, who in early experiments with crude rubber "discovered its solubility in naphtha."

The Chemical Constitution of Natural Fats.-T. P. Hilditch, D.Sc., F.R.S., F.R.I.C. to in, x 6½ in. Pp. 554. 458. Chapman & Hall, Ltd., 37 Essex Street, London, W.C.2. In this second edition of a well-known work the text has been revised to include advances in the knowledge of the chemical constitution of fats between 1940 and the end of 1945, and now contains 100 pages more than the original edition. The new matter covers work on component acids and component glycerides, and includes new information on individual fatty acids. The chapter devoted to experimental technique has been expanded and deals fully with the methods of interpretation of ester-fractions involved in the determination of component acids. The indexes have been rearranged, and indexes of individual fats and waxes, plant families, fatty acids, and of glycerides, now follow the general index.

The Principles and Practice of Gaseous Anæsthetic Apparatus.—A. Charles King. 7½ x 5 in. Pp. 47. Complimentary to users. Baillière, Tindall & Cox. 7 Henrietta Street, London, W.C.2. Now in its second edition, this practical handbook reproduces the useful tables and diagrams of the first. In the words of the senior anæsthetist, Westminster and Brompton Chest Hospitals, given in a preface, "nothing changes very much in fundamental principles." Nothing, he might have added, changes much in their practical application, though tragedies continue to occur through practices overdue for improvement (witness the failure to distinguish sufficiently and unmistakably

between the markings of nitrous oxide and oxygen cylinders). The author, a director of A. Chas. King, Ltd. (a subsidiary of the British Oxygen Co., Ltd.), presents objectively a compendium of informative detail. The reader is left with the erroneous impression that existing apparatus is perfect and beyond change.

Solutions and Dosage.—8 in.  $x = 5\frac{1}{2}$  in. Pp. 295. 12s. 6d. McGraw-Hill Book Co., Ltd., Aldwych House, Aldwych, London, W.C.2. Although the book is written by a nurse for nurses, certain portions, such as that on percentage solutions, might prove of use for elementary revision by pharmaceutical students. The author has explained the principles underlying the calculations and has advantageously used illustrations to encourage a visual appreciation of other problems—for example, the errors involved in not measuring liquids at eye level, and conversion of temperatures the Fahrenheit to the Centigrade scale. A particular feature of the book is that a number of pages containing questions and spaces for the answers, and other pages giving the correct answers, are perforated, and may be detached for the students' or teachers' convenience. Students accustomed to using British Imperial units should note that the American pint measure (16 fl. oz.) is used throughout the book.

Thorpe's Dictionary Of Applied Chemistry, Volume VIII. - Sir Ian Heilbron, chairman of the editorial board. 9 in. x 5\frac{3}{4} in. Pp. 678. 80s. Longmans Green & Co., Ltd., 43 Albert Drive, London, S.W.19. The volume, the latest yet issued in the fourth edition of the dictionary, covers methal to oil of American wormseed (oleum chenopodii). Following the style of the previous ones, the work is liberally supplied with diagrams and structural formulas, and contains specially written articles on a number of subjects. Outstanding features are the articles on chemical nomenclature and literature; utilisation of atmospheric nitrogen; growth factors for micro-organisms; the electron microscope; and essential oils. Among the contributors to the volume are several workers in the pharmaceutical field, including C. T. Bennett, B.Sc., Ph.C. (Wright, Layman & Umney, Ltd.), F. L. Rose, B.Sc., Ph.D. (Imperial Chemical Industries, Ltd.); others from the same laboratories; and B. C. J. G. Knight (Wellcome Physiological Research Laboratories).

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## MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available permitted to be used for the purpose.

Hair Varnish.—D.L.—A spirit hair-var	nish	ı ma
be prepared as follows:-		
Resin	10	gm.
Gum benzoin	20	gm.
Alcohol	70	gm.
Perfume		q.s.
Mooney's Ointment.—C.H.—The oin		

Mooney's Ointment.—C.H.—The ointment to which you refer is used for veterinary purposes and is believed to be of Scottish origin. Its formula is as follows:—

 Black sulphur
 ...
 2 dr.

 Potassium bicarbonate
 ...
 2 dr.

 Creosote
 ...
 20 min.

 Soft paraffin
 ...
 to 20 oz.

**Leg Make-up.**—7.E.D.—A simple formula for leg make-up is as follows:—

 Diethylene glycol monostearate
 (self-emulsifying)
 ...
 23

 Titanium dioxide
 ...
 ...
 7

 Colloidal kaolin
 ...
 ...
 11.5

 Water
 ...
 ...
 458.5

Waterproofing agents such as lanolin or cetyl alcohol could be added if desired, and the preparation could be coloured with umber, oxide of iron, or similar compound.

Getting Rid of Wireworms.—A.J.C..—Carbon disulphide in emulsions has been used for getting rid of wireworms, particularly in glass-houses and market gardens. Below is a typical formula:—

Carbon disulphide	700 mils
Oleic acid	77 mils
Ethyl alcohol (95 per cent.)	193 mils
Cottonseed oil (purified)	30 mils
Potassium hydroxide	13.5 gm.

One quart of this emulsion is used to 50 gall. of water, 3 pints of the solution being applied to the square foot.

Old Age Pensions.—A.L.—A man who retires at the age of sixty-five, with his cards fully stamped up, is entitled to a pension of 26s. a week, and his wife, if she is over sixty, is entitled to 16s. per week. A male contributor to the fund who does not retire at sixty-five is entitled to a pension of 10s. per week, and his wife, if she is over sixty, is also entitled to 10s. per week. At the age of seventy, a male contributor, whether or not he has retired from employment, is entitled to 26s. per week, and his wife, if over sixty, to 16s. per week. A non-contributor is not entitled to a pension at sixty-five, but may claim a pension at he age of seventy. This non-contributory pension is subject to a means test, details of which may be obtained from any post office on Form P.1 (1947). His wife, if over seventy, is entitled to a maximum of 16s. also subject to a means test.

Lubricating a Watch.—J.D.—An oil intended for lubricating watches should neither thicken nor dry up; harden at a low temperature, nor ox'dise. No animal or vegetable oil is known which meets these requirements without treatment, but by the following method the desired properties in a lubricant medium may be obtained:—

Put 1 oz. of pure olive oil in a tumbler, add 2 oz of 96° alcohol, stirring well; set it away in a darl place for twenty-four hours or more, well covered then pour into a clean bottle containing 10 oz distilled water or clean rain water; shake violently for five minutes, allow the mixture to stand for about half an hour, then freeze with ice and salt A fine limpid watch oil, fluid at the top, may then be drawn off by syphoning. Care must be taken not to break the container during the freezint process.

Darkening Gun Barrels.—J.N.L.—A formula for darkening gun barrels given in a U.S. ordnance manual is as follows:—

First clean the barrel well with solution of sodium hydroxide to remove grease, etc. Then remove any stains by means of emery paper so as to produce an even, bright surface. Close the bore and vent with wooden plugs, then apply the solution with a sponge or rag and expose to the air for twenty-four hours. Scrub with a stiff brush, wash in boiling water, dry quickly, and wipe over with linseed oil, or apply a coating of shellac varnish.

**Wax Polishes.**—T.A.P.—Below are three formulas for preparing wax polishes:—

I	
Yellow beeswax	3 lb.
White soap	ı lb.
Oil of turpentine	ı gall.
Water	ı gall.

The waxes should be melted at a gent'e heat and the turpentine added and mixed with them. The soap, previously dissolved in the water, is then added, and the whole is st'rred continuously until cool. On a large scale, a mechanical mixer is used.

II	
Yellow beeswax	13 oz.
Castile soap	2 OZ.
Potassium carbonate	3 oz.
Oil of turpentine	2 OZ.
Water (distilled)	100 OZ.
Oil of cassia	
f 11	

Melt the wax and slowly pour in the soap, dissolved in two quarts of boiling water, and boil gently. Add the turpentine, the potash dissolved in the rest of the water, and the oil of cassia, stirring well. Allow to cool and stir well again before bottling.

Yellow wax ......

111	
 	14 oz.

Oil of turpentine 32 oz. Shred the wax, steep it in the oil of turpentine overnight, then dissolve completely by putting the jar into a basin of hot water and stirring until the mixture is clear. Remove from the basin and stir occasionally until the mixture is creamy.

1941

## **BUSINESS QUERIES AND ANSWERS**

ubscribers are invited to address inquiries to the Editor on problems of management, counts, stock-keeping, taxation. To ensure that no information of a confidential ature is disclosed to a competitor, replies will be given under initials or a pseudonym. f it is necessary to forward documents, copies only and not originals should be sent.

## Outlay on Research

"Is there any income tax allowance for utlay on research?"—M.B.

For purposes of income tax, items uch as salaries and fees paid to scientific esearch workers, including the cost of acquiring laboratory materials, are allowed or stand as deductions from profits, and certain items of capital outlay on scientific esearch are allowed in annual instalments over a period of years.

### Capital Profits

"As capital profits are not taxable, would you please state how capital profits are made?"—B.B.

Capital profits are made by an increase in the value of assets which are not owned with a view to trading in them. They often arise from circumstances outside the owner's control, such as when business buildings increase in value owing to increased demand, or when the market prices of investments increase. Sometimes a profit is made on the sale of an asset, and this might be termed a capital profit.

### Compiling a Balance Sheet

"Would you please let me know how I could make out a balance sheet showing gross per cent. profit?"—M. J. H.

The amount of gross profit made during the year or other period will be shown in the trading account, and the net profit will be shown in the periodical profit and loss account. A balance sheet is a statement of assets and liabilities, and comprises the ledger balances remaining after the profit and loss account has been completed. To be able to prepare a reliable balance sheet involves the keeping of a proper set of books, the clerical accuracy of which can be verified.

### Rehabilitation Costs

"I should be obliged if you would define rehabilitation costs to be considered in computing taxable profits."—E. B.

In addition to expenditure incurred in removing shelters and other defences, the cost of removing an undertaking back to a situation from which it was moved on account of war-time conditions, or removing to a new site, is classed as a rehabilitation cost. Any expenditure incurred in readapting plant, machinery, buildings or other physical assets, in order to restore them to conditions more suited to peacetime activity, is classed similarly. Expenditure on improvements is not included.

### Cost Price or Market Price?

"One of our manufacturing departments produces the crude material which is used by another department for the manufacture of refined products, and we should like to know whether crude transferred to the refining plant should be calculated at cost price or market price."—W. W. & S.

Comparative costs are usually compiled on the basis of each unit of raw material, the raw products being transferred at market prices, but it matters very little in practice so long as the bearing of the system is borne in mind. Calculation of unit cost is simple when a single product is manufactured, but when there are a number of products of different market value it is difficult to estimate the proportion of labour, fuel, etc., used in the production of each quality.

### Bank Reconciliation

"Upon balancing my books at the end of December, I had difficulty in reconciling the bank balance as shown in my cash book with the balance shown in the bank ledger abstract. Is there any recognised method of reconciliation?"—S.C.

It is usual to prepare a bank reconciliation statement at the date of balancing, showing the pass book balance, the unpresented cheques, any post-dated cheques, and the cash book balance. The total of the unpresented cheques (i.e., cheques paid away but not yet presented at the bank for payment) should be deducted from the bank balance as per bank ledger abstract, and the amount which has been paid to bank but not yet credited should then be added to arrive at the bank balance as per cash book. Care is called for to ensure that all items of bank charges are entered in the cash book.

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#### COMING EVENTS

#### Monday, January 12

ROMFORD BRANCH. PHARMACEUTICAL SOCIETY, Market Room, Golden Lion Hotel, Romford, at 7,30 p.m. Mr. C. Beaven, Ph.C. (Parke, Davis & Co.), on "The Riddle of Allergy."

SHEFFIELD BRANCH, NATIONAL PHARMACEUTICAL UNION, Metallurgical Club, 198 West Street, Sheffield, at 8 p.m. Mr. W. J. Tristram (a member of Council, Pharmaceutical Society), on "Your World Tomorrow."

Merseyside Branch, National Association of Women Pharmacists, 56 Lord Street, Liverpool, at 7.30 p.m. Members' night.

#### Tuesday, January 13

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Medico-Chirurgical Society, 34 St. James's Street, Nottingham, at 7 p.m. Mr. A. W. Bull, B.Sc., Ph.C., A.R.I.C., on "Ointment Bases."

PRESTON BRANCH, PHARMAGEUTICAL SOCIETY, Bull Royal Hotel, Church Street, Preston, at 7.30 p.m. Mr. W. J. Tristram (a member of the Society's Council) on "Your World Tomorrow." HOUNSLOW BRANCH, PHARMAGEUTICAL SOCIETY, Trinity Hall, Alexandra Road, Hounslow, at 8 p.m. Film show presented by Mr. W. J. Merrick (Evans Medical Supplies, Ltd.).

#### Wednesday, January 14

Manchester Pharmaceutical Association, Grand Hotel, Manchester. Whist drive and dinner dance (particulars from secretary).

TUNBRIDGE WELLS PHARMACEUTICAL ASSOCIATION, Royal Mount Ephraim Hotel, Tunbridge Wells, 8 p.m.—1 a.m. Dance and social evening.

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Kidd's Rooms, Dundee, 7 p.m.—1 a.m. Whist drive and dance (dres optional). Tickets (10s. 6d. each) from secretaries.

GLASGOW AND SOUTH-WEST SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Dr. T. G. A. McSorley on "Allergy"; also film "Take Thou."

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. (joint meeting with Photographic Dealers' Asso-ciation Branch). Mr. R. M. Fanstone, A.R.P.S., on "Dufaycolor Photography" (illustrated).

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, BO mington Hotel, Southampton Row, London, W.C.1, 7—11 p.m. Annual dance (evening dress optional). Tickets (10s. 6d, each including refreshments) from the secretary.

#### Thursday, January 15

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Evening meeting. Mr. A. G. Fishburn, Ph.C., F.R.I.C., on "The Place of Pharmaceutical Research in Medicine."

WEST HAM ASSOCIATION OF PHARMACISTS. Visit to Westminster Hospital dispensary.

SHEFFIELD BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Carlton Restaurant, Sheffield, at 8 p.m. Informal supper. Tickets (7s. 6d. each) from Mrs. Dove (Telephone: Sheffield 31877).

#### Friday, January 16

London Branch, Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Film show: "Take Thou," "The Scabies Mite" and "Outdoor Tomato Growing."

#### Monday, January 19

LONDON AND SOUTH-EASTERN COUNTIES SECTION ROYAL INSTITUTE OF CHEMISTRY, Wellcome Research Institution, Euston Road, London, N.W.1 at 6.30 p.m. Mr. Hugh N. Linstead, O.B.E. M.P., on "Science and Parliament."

CHELSEA POLYTECHNIC CHEMICAL SOCIETY, Manress Road, Chelsea, London, S.W.3, at 5.15 p.m Dr. H. J. Barber (May & Baker, Ltd.), or "Antimalarials."

WESTERN (LONDON) PHARMACISTS' ASSOCIATION, I' Bloomsbury Square, London, W.C. I, at 7.30 p.m First of series of five lectures in refresher cours by Mr. H. S. Grainger, Ph.C. (chief pharmacist Prince of Wales General Hospital).

Bristol Window Display Competition (organised by The Crookes Laboratories, Ltd., Park Royal London, N.W.10), January 12-24.

## C. & D. DISPENSING PRICE LIST

THE following price alterations which took place during December 1947 should be noted.

place during December 1947 should be noted.						
Co	ost	Due allowance has been made for purchase tax at new	for price			
d.	per	rate in both cost and dispensing prices	4 oz. s. d.	1 oz. s. d.		dr. <i>d</i> .
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## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

#### Tax on Medicines

SIR,—Would the following suggestion be of assistance in avoiding the incidence of purchase tax on medicines and simple nousehold remedies:—To exempt from tax "All medicines that can be obtained only on a duly signed medical, veterinary or dental prescription, or are manufactured and/or packed on the premises in which they are retailed"?

Yours faithfully, Glasgow, S.W.I. J. M. WILLIAMSON.

Sir,—I think everyone will agree that the recent doubling of the purchase tax without any detailed consideration as to the essentiality or otherwise of the medicines in question adds insult to what, in a number of cases, was already an unwarranted injury. The lukewarm and rather qualified promise of the Chancellor to "look into" the matter is obviously far from satisfactory. I feel that the position requires the utmost energy on the part of each one of us, and feel confident that, if every pharmacist not only wrote to his own M.P. but also gave the lead to his principal customers to adopt the same course, the result would be much more effective than any other means that could be taken individually. I need only add that, regardless of trouble or expense, I am taking the most energetic means to advance these convictions.

Yours faithfully,
GEOFFREY HIRST, managing director,
HIRST BROOKE & HIRST, LTD.

Leeds, 7.

## Drug Sale Memories

SIR,—As one of the regular buyers at the Mincing Lane drug sales from 1922 till they closed down at the beginning of the war, I was pleased to read the capital article by Mr. W. C. Radermacher on the "Good old days" in Mincing Lane. My predecessor, who attended the sales from 1902 to 1922 (and also his predecessor) wore top hats, etc., when they visited the brokers' showrooms on the Wednesday previous to the sales, and also when they went on 'change on Tuesday and Friday afternoons. I shall always remember the first drug sale I attended—on a summer's day in 1922. The sales commenced at 10 a.m., and I never left my seat till the sales ended just before 2 p.m. When it was time to go I could hardly stand or

walk, and when I sat down in the restaurant underneath the sale rooms I found my appetite had gone. After the 1914-18 war the sales were held every two months, and they were usually completed in under two hours. For years I had the honour of sitting at a front table next to Mr. Groom (French & Plucknett), while Mr. E. A. Smee sat opposite me. In conclusion may I say that the writer of the article was (and still is) one of the most obliging, courteous and gentlemanly personalities in the City of London.

Yours faithfully, A. E. S.

### Keeping Track of Prices

SIR,—Trying to find the correct retail prices of proprietaries is now increasing our work enormously. Conditions at the moment are exceptional, but variations in price are likely for some considerable time. I suggest that the dream of the future would be the use, by all manufacturers and agents, of the standard postcard for all alterations and additions to price lists (in a similar manner to that used for new reme-These could then all be filed in a card index and, by going to the one drawer or set of drawers, a retailer could immediately find what he wanted. If this system were extended to trade terms and carriagepaid quantities, packings, etc., it would save the unfortunate order-sender's searching through a heterogeneous collection of folders and then possibly, owing to their varied forms, not finding what was wanted. Manufacturers, wholesalers and retailers would all benefit in time saved, and by orders correctly made out. If only half-adozen big manufacturers could be persuaded to adopt this method, others, by virtue of the efficiency that resulted, would, I imagine, soon follow. At present, owing to paper restrictions, it may not be possible for such a plan to materialise, but even the framing of advertisements in the trade Press so that they could be cut out and pasted on to old postcards would be a most helpful step. Uniformity in list alterations, trade terms, additions, etc., seems to me much more likely to be achieved than the standardisation of sizes of invoices, etc., that I have seen advocated in letters to the Editor.

Yours faithfully, Douglas, I.O.M. Chas. Hy. Kerruish.

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## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex St., W.C.2, January 7

Markets for Pharmaceutical and Fine CHEMICALS have shown small advances in the prices of a number of products including Phosphoric acid and Sodium acid PHOSPHATE, which have been increased by one halfpenny and threepence per lb., respectively. Ammonium chloride is firmer; 1-cwt. lots are 9½d, per lb. Iron and quinine citrate, B.P. is twopence per oz. dearer, and increases are also noted for FERRIC CHLORIDE SOLUTIONS. QUININ. ET UREA HYDROCHLOR., B.P.C. is increased by 1s. 4d. per lb. and QUININ. GLYCEROPHOSPH., B.P.C. by 1s. 6d. per lb. Calamine, B.P.C., is an exception to the general price movement—the rates have been reduced by fourpence per lb.; 1-cwt. lots are now quoted at 1s. 10d. per lb. The foregoing price alterations are all effective from January PHOTOGRAPHIC CHEMICALS are increased rates are announced for Hydro-QUINONE and METOL. New rates for Sul-PHANILAMIDE are published in this issue. Supplies of ACETANILIDE are still difficult because of the shortage of acetic anhydride, while the recent cut in manufacturers' supplies of phenol is affecting the output of Aspirin and Sodium salicylate. GUAIACOLS are in rather better supply, but not sufficient to satisfy the heavy demand. Deliveries of Benzoic acid and Sodium BENZOATE are coming through steadily and a substantial business is being done in these products. Sodium products, generally, are still being held up by lack of soda ash.

Crude Drugs

Activity in the Crude Drugs markets is still somewhat restricted; there has been a considerable accumulation of export inquiries, which came immediately prior to the Christmas closing, to be dealt with, and the usual end-of-year stocktaking has also influenced some sections. Prices are without material alteration. Supplies of Agar from Hongkong are expected to be available towards the end of this month. No offers of new-crop Buchu or Ergot have been received; supplies of the latter to come forward are of old-crop material which has been fumigated. Cascara sagrada is tending firmer, but little business has been done during the past week. It is understood that importers have experienced difficulties in obtaining licences to bring in Chinese Camphor; there are, however, fairly good stocks on the spot. Inquiry has been received for Japanese material but at the present there seems little chance of import licences being granted, although it is reported that supplies are available in Hongkong. The reduction by a half of the duty on Menthou (see C. & D., December 6, 1947, p. 689),

which came into operation on January 1, has not affected the current spot values, and the market is fairly steady. There is a good inquiry for Strophanthus, of which there is little, if any, on the spot. A routine demand is reported for Tragacanth and the market is easy with new arrivals coming forward in quantity.

Essential and Expressed Oils

A good inquiry for Almond oil, B.P., is reported; supplies continue difficult and prices are fully maintained. In Essential Oils, Ceylon Citronella remains an easy market but Lemongrass is firmer. Palmarosa is nominal on the spot and there have been few shipment offers, with prices at about 27s. 6d., c.i.f. Cables report difficulties in India which are holding up the distillation and transport of this oil. In the absence of further importations of Sansafras oil from Brazil the market is inclined to strengthen. English-distilled Coriander is still short, but an improvement is noted in the output of Sandalwood and prices have been reduced. Nutmeg is coming forward in adequate quantities and the market is easy.

The Essential Oils Control announce in

The Essential Oils Control announce in Circular No. 45 that EUCALYPTUS OILS, of cineole content 70 to 75 per cent. and 80 to 85 per cent., respectively, and OTTO OF ROSE have been removed from the scheme of distribution, with effect from January 6.

#### U.S. Drug and Chemical Report New York, January 2

Featuring the Fine Chemical market is a reduction in the price of Streptomycin: the new wholesale price is \$2.24 per vial compared with \$2.72 previously, while the retail price becomes \$3.50. The impending arrival of about 700 cases of Menthol. from Japan has produced an easier tone on this market, current quotations ranging from 9.20 to 9.25 cents per lb., against 9.25 to 9.35 cents a week earlier. Phenacetin schedules have been advanced 10 cents per lb. by one producer, the new price for spot material, in 1,000-lb. lots, being \$1.10 to \$1.14 per lb.

The CRUDE DRUGS market has been very quiet over the past week due to the holiday season. Of considerable interest, however, was the arrival of two consignments of CARNAUBA WAX from Brazil, the first amounting to about 300 tons and the second to some 250 tons. More material from Brazil is understood to be on its way to the U.S. The arrival of 1,500 flasks of MERCURY from Jugo-Slavia has been followed by reports that lots of 500 flasks are being offered at \$75 a flask, inclusive of duty—which is about two dollars below the inside price of most suppliers.

#### Pharmaceutical Chemicals

ALLOBARBITONE.—Current price for 10-kilo lots is 90s. per kilo; smaller quantities re quoted at 99s. per kilo.

AMIDOPYRINE. — Quotations are fundintained at from 53s. to 63s. per lb.

AMPHETAMINE.—Steady. Prices for the BASE and SULPHATE are from 150s, to 160s. per lb., as to quantity.

ASCORBIC ACID.—Current quotations are

at from £23 10s. per kilo, upwards.

BARBITONE.—Base and soluble are available at prices from 44s. 6d. to 46s. per lb.

BARIUM SULPHATE, B.P. (x-ray).—Schedule rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.), 1s. 7d. (2-lb.), 1s.  $6\frac{1}{2}$ d. (4-lb.), 1s.  $5\frac{1}{2}$ d. (7-lb.), 1s. 5d. (14lb.), 1s. 4d. (28-lb.).

BENZOCAINE.—Current rates per lb. are 40s. 9d. for 28-lb. lots and 41s. 3d. for 14-lb. lots, other quantities in proportion.

BENZOIC ACID.—Makers' quotations are at from 2s. 7d. to 3s. per lb. for B.P., with technical grade at 2s. 6d. to 2s. 8d. SODIUM BENZOATE is quoted from 2s. 6d. to 2s. 8d.

BENZYL BENZOATE. — B.P. quality is quoted from 4s. 6d. to 5s. per lb., according to quantity; perfumers' quality, 5s. to 5s. 6d. per lb.

a-Bromisovalerylurea.—Quotations are from 42s. 6d. to 50s. per lb., according to quantity.

CITRIC ACID, B.P.—Makers quote 1s. 51d. per lb., discount 5 per cent., for 1-cwt. lots, delivered, in the United Kingdom.

Cocaine.—Rates per oz. are as follows: COCAINE.—Rates per oz. are as follows: Alkaloid, Citrate and Salicylate, bottles, \(\frac{1}{2}\)-oz., 63s.; \(\frac{1}{2}\)-oz., 59s. 6d.; \(\frac{1}{2}\)-oz., 56s. 6d.; \(\frac{1}{2}\)-oz., 55s. 6d.; \(\frac{1}{2}\)-oz., 55s.; \(\frac{1}{2}\)-oz., 53s. 9d.; tins, 25-oz., 53s. Hydrocilloride, Nitrate and Sulphate, bottles, \(\frac{1}{2}\)-oz., 56s.; \(\frac{1}{2}\)-oz., 50s.; \(\frac{1}{2}\)-oz., 46s. 6d.; \(\frac{1}{2}\)-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 25-oz., 46s. The quotations include cost of The quotations include cost of 25-oz., 46s. containers.

CODEINE.—Current prices per oz., in the CODEINE.—Cutrent prices per oz., if the home market, are: Alkaloid, ½ oz., 3 oz., 47s.; 4 oz., 46s. 9d. Hydrochloride, ½ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., 41s. 6d.; Phosphate, ½ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. Hydroeromide and Iodide as Alkaloid; Sulphate as Hydrocylorides HYDROCHLORIDE.

GLYCEROPHOSPHATES. — Makers' GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; Iron Scale, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d. POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. lower than above rates; other quantities in proportion. rates; other quantities in proportion.

HYDROQUINONE.—Increased rates are as follows: 10-cwt., 9s. 6d.; 5-cwt., 9s. 9d.; 1-cwt., 10s.; 28-lb., 11s.; 14-lb., 11s. 3d.; 7-lb., 11s. 6d. per lb. Carriage paid in the United Kingdom.

Metol.—Increased rates are as follows: 10-cwt., 19s.; 5-cwt., 19s. 6d.; 1-cwt., 20s.; 28-lb., 21s.; 14-lb., 23s.; 7-lb., 24s. per lb. Carriage paid in the United Kingdom.

PEPSIN.—Quotations for B.P. standard are at 33s. 6d. per lb.

PHENOBARBITONE.—Manufacturers' prices are 40s, 6d. per lb. for 7-lb. lots and 39s. for 28-lb. lots. The corresponding rates for the sodium salt are 43s. and 41s. 6d.

POTASSIUM PERMANGANATE.—Prices are unchanged and are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. Technical (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.: 4 tons and over, 154s. 3d. Tech-NICAL (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms, net, carriage paid to nearest station, containers extra and returnable.

Procaine hydrochloride. — Current quotations are from 42s. 6d. to 45s. per lb.

ROCHELLE SALT.—Current rates per cwt. are as follows: 1-cwt., 182s. 6d.; 5-cwt., 180s. Seidlitz powder, ordinary strength is quoted at 141s. 3d. for 1-cwt. and 139s. 3d. for 5-cwt.; extra strong, 1-cwt., 152s. 6d., 5-cwt., 150s. 6d.,; double strength, 1-cwt., 159s., 5-cwt., 157s.

SALICYLIC ACID.—Current rates per lb. (containers in brackets) in the home market are as follows: 28 lb, and under 1 cwt., 2s. 9½d. (1-lb.); 2s. 8½d. (2-lb.); 2s. 8d. (4-lb.); 2s. 7d. (7-lb.); 2s. 6½d. (14-lb.); 2s. 7d. (7-lb.); 2s. 6½d. (14-lb.); 2s.  $5\frac{1}{2}$ d. (28-lb.). Net one month.

Salicylsulphonic acid.—Makers' quota-

tion for this reagent is 15s. per lb.

SODIUM SALICYLATE.—Current rates per (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 3s. 3d. (1-lb.); 3s. 2d. 2-lb.); 3s. 1½d. (4-lb.); 3s. 0½d. (7-lb.); 3s. (14-lb.); 2s. 11d. (28-lb.). Net one month.

STILBŒSTROL.—Quotations for the Base and DIPROPRIONATE are from 2s. 3d. to

2s. 6d. per gm. SULPHACETAMIDE.—BASE and SOLUBLE

are priced at 65s. per lb. SULPHANILAMIDE. — Makers announce

higher rates as follows: 5-cwt., 6s. 3d.; 1-cwt., 6s. 6d.; 28-lb., 6s. 10d.; 14-lb., 7s.; 7-lb., 7s. 9d. per lb., net; packing extra. SULPHANILIC ACID, B.P.C. — Current quotations are around 6s. per lb.

TANNIC ACID. - B.P. levis, ex ether, is from 10s. 6d. per lb., according to quantity.

TARTARIC ACID, B.P.—British-manufactured acid is quoted at 230s. per cwt., delivered.

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#### Crude Drugs

Aloes.—Steady. Cape is quoted at 160s. to 165s., spot; shipment, 135s., c.i.f. Curação in boxes is available from 235s. to 245s., spot; forward, 215s. to 220s., c.i.f.; Socotrine, spot, 156s. to 190s. per cwt.

Annatto seed.—Jamaica is offered at 11d. per lb., c.i.f.

Antimony.—Current rates are as follows: 99.6 per cent., regulus, £190 per ton delivered; 99 per cent., £180; 70 per cent. crude, £150.

Areca nuts.—Ceylon on the spot is un-

changed at 67s. 6d. per lb.

Balsams.—Canada on the spot is firm at 17s. 6d. to 18s. per lb. Para Copaiba, spot, Ss. per lb. for soluble and 7s. 3d. for insoluble. Peru, San Salvador, is offered at 6s. 3d. per lb., duty paid. Tolu on spot, 19s. 6d. per lb.

Belladonna.—Herb, B.P., on the spot is quoted at 5s. 6d. per lb. Root (0.51 alka-

loids) is offered at 6s. 6d. per lb.

Benzoin.—Steady. Quotations are from £15 to £18 per cwt., according to quality.

BISMUTH.—Current price of high-grade metal is 11s. per lb. for quantities of 5 cwt.

Buchu.—No new-crop offers are reported and the official leaves are difficult to find on the spot, 4s. 3d. to 4s. 4d. per lb. has been asked. Ovals are available at 4s.

CALUMBA.—Quiet. Natural unwashed

root is quoted at 67s. 6d. per cwt.

Camphor.—Difficulties in obtaining import licences for Chinese is reported; spot values are unchanged. Chinese tablets (\frac{1}{4}\cdot oz.) are quoted at 11s. 6d. to 11s. 9d. per lb.; refined powder (B.P.), 10s. 3d. to 10s. 6d., Formosa (B.B.), 9s. 6d. to 10s.; 10s. 6d. per lb.; refined powder (B.P.), 10s. 3d. to 10s. 6d. per lb.; refined powder (B.P.), 10s. 3d. to 10s.; 10s. 6d. per lb.; 10s. per lb.;  $2\frac{1}{2}$ -lb. slabs, affoat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude 93-95 per cent., 7s. per lb.

Cantharides.—Chinese are 11s. 6d., duty paid; afloat, 8s., c.i.f.; for shipment,

6s. 6d., c.i.f.

Capsicums.—East African, spot, steady

at 120s. to 140s. per cwt.

CARDAMOMS.—Mangalore: Half-bleached, A's, are quoted at 8s. 6d.; B's, 8s.; seeds, 7s. (nominal), spot. Aleppy seeds No. 1 offered at 7s. 9d.; Aleppy greens, 6s. 9d. per lb., spot.

Cascara sagrada. — Firmer conditions are reported and 270s. to 275s. is quoted for 1947 peel but there are sellers at 265s, per cwt.; 1946 peel is about 5s. more than the price for the later crop.

CASCARILLA.—Quills are at 1s. 8d. to 1s. 9d. and siftings at 1s. 5d. per lb., spot. Cassia Pods (C. fistula).—East Indian,

quoted at 70s. per cwt., ex wharf.

Chamomiles.—Belgian are quoted at 12s. to 12s. 6d. per lb., duty paid; Hungarian, spot, quoted at 3s. per lb., duty paid. CLOVES.—Firm. Zanzibar, 10d. per lb.;

Penang, 3s. 6d. per lb., spot.

Colchicum.—Jugo-Slav corms are quoted at 9s. 9d. to 10s. per lb., spot.

Colocynth.—Spot, fine-white is quoted at 1s. 10d.; medium-white at 1s. 9d. per lb

Dragons blood.—Singapore reboiled No 1 is at £75 to £80 per cwt., spot; second grade material is available at £50.

ELEMI.—A parcel of Manila No. 1 is offered at 2s. 6d. per lb., landed.

ERGOT.—Spot is steady at 4s. 6d. per lb.; for shipment, 3s. 10d., c.i.f.

Gamboge.—Siam pipe is offered at £55 per cwt., duty paid, ex warehouse.

Gentian.—French natural root, spot, is quoted at 90s. to 95s.; cut, 115s. per cwt.

GINGER.—Jamaica No. 1 is quoted at 120s. per cwt., spot; No. 2, 100s.; No. 3, 96s., sellers; Sierra Leone is available at 67s. 6d.; new-crop, February-April shipment, 64s., c.i.f.

GUAIACUM RESIN .- Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

Gum acacia.—An easier market. Kordofan cleaned sorts, sellers at 71s. per cwt London; shipment 62s. 6d., Bleached No. 1, 140s., ex store. Talha on the spot, quoted 39s. 6d. per cwt., shipment, 36s., c.i.f.

Gum mastic.—Spot. No. 1 is available

at 14s. per lb., duty paid.

HENBANE. B.P. is quoted at 4s. 6d. per lb., spot. Egyptian (H. muticus) if offered at 105s. per cwt., spot; 80s., c.i.f.

Henna.—Egyptian is offered at 125s. per cwt., ex warehouse; Indian, 125s. per cwt.

IPECACUANHA. — Nicaraguan on spot, 28s. 6d. to 30s. per lb., according to holder; shipment, 27s., c.i.f. Colombian root, 28s., spot; shipment, 25s., c.i.f.

LANOLIN.—Makers' prices are £107 per ton for B.P. ANHYDROUS and £103 for B.P. Hydrous, delivered U.K., packages free.

Supplies are still restricted.

Liquorice.—Anatolian natural root is firm on the spot with sellers at 57s. 6d. and buyers at 55s. per cwt.; Syrian natural is offered at 56s. per cwt. for large quantities. Anatolian block, scarce on spot, is offering at 275s. to 300s. per cwt.; Syrian block, 395s. to 405s., according to quantity; Italian block, 375s. per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade.

Male Fern.—A parcel of Jugo-Slav is

offering at £95 per ton, c.i.f.

Menthol.—Quiet. Brazil, 48s. 6d. to 50s., duty paid; Chinese, 60s. per lb.

Nutmeg.—West Indian 80's are quoted at 3s. 6d. per lb.; sound unassorted, 2s. 9d.; wormy and broken, 1s. 8d. East Indian 80's, 4s., spot, quoted.

RHATANY.—A fair business has been done; quoted at 9d. per lb., spot.

Rhubarb.—Chinese rough-round on the spot is quoted from 5s. to 6s. 6d. per lb., according to fracture; wormy is available at 3s. 6d.: French rhapontica, 1s. 9d.

SANDARAC.—Spot, 6s. per lb., quoted.

SEEDS.—The market has remained steady during the past week. ANISE.—Sellers of Cyprus at 1s. 10d. per lb. and of Turkish at 1s. 9d. per lb., duty paid, spot London or Liverpool. CARAWAY.—Dutch, spot, offered at 1s. per lb., duty paid. CELERY.—Indian, sellers now quoting 1s. 3d. per lb., spot Liverpool. Coriander.—Spot, Morocco, in wormy condition, offered at 52s. 6d. per cwt., duty paid in London; Argentine quoted at 47s. 6d. per cwt., duty paid. 47s. 6d. per cwt., c.i.f. London, is now asked for shipment Argentine. CUMIN.— Indian on spot is now offered at 215s, per cwt. owing to lack of buyers; Cyprus quoted at 220s, per cwt. in London. DILL.

—Indian offered at 47s, 6d, per cwt. in London and 45s, per cwt. in London and 45s. London, and 45s. per cwt. ex store Liverpool. Fennel.—Indian, 72s. 6d. per cwt., spot Liverpool. FENUGREEK. — Indian quoted at 47s. 6d. per cwt. spot London and 45s. per cwt. in Liverpool; a parcel of 15 tons is now landing in Liverpool, for which sellers are asking 42s. 6d. per cwt. to clear whole parcel.

SENNA.—Tinnevelly leaves, on the spot, offered as follows: No. 1, 10d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 7d. to 8d.; No. 4, 6d. Tinnevelly pods, handpicked, 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing, 1s. 9d. to 2s. per lb. Alexandrian leaves, 1s. 2d. per

lb. quoted for f.a.q.

SHELLAC.—Firmer. Spot quotations, ex warehouse London, are as follows: F.O.T.N., pure, 315s.; Standard No. 1, 325s.; fine orange, 335s. to 390s. per cwt.

TRAGACANTH.-Merchants want to dispose of stocks with new arrivals coming forward, and the market has eased. Selected white ribbon on the spot is available at prices from £115 to £120 per cwt.: other white grades, from £60 to £100; pale leaf, £35 to £52; amber, £25 to £35; red, £13 to £18; hoggy, £7 to £11.

Turmeric.—Madras finger, 112s. 6d. to 115s. per cwt., spot Liverpool or London;

to arrive, 105s., c.i.f., sellers.

WAXES.—Dar-es-Salaam Bees' is nominal on spot at 385s. per cwt.; Lindi, 375s., nominal. Benguela is offered at 360s., duty paid; shipment, 305s., c.i.f. CANNELILLA.—Easier at 410s. per cwt., spot; shipment, 385s., c.i.f. CARNAUBA.—Fatty grey shipment is easier at 445s. per cwt. grey shipment is easier at 445s. per cwt.; afloat, 475s., c.i.f.; 515s. spot. Prime yellow. spot, 850s. per cwt.; shipment, easier at 790s., c.i.f. Monan.—Reibeck, 375s. per cwt., spot; Czechoslovak crude, easier at 320s., spot. Ouricuri.—6 per cent., on the spot, easier at 375s. per cwt. Shipment, 1 per cent., 400s., c.i.f.; 2 per cent., 385s., c.i.f.; 5 per cent., 370s., c.i.f.

## Essential and Expressed Oils

Almond.—B.P. (sweet) is firm at from 10s. 6d. to 12s. 6d. per lb. Bitter oil is quoted from 30s. to 55s. per lb., according to quality.

ANISE.—Spot supplies are quoted at 6s. 6d. to 6s. 9d. per lb. for drums, and 6s. 9d. for tins in cases, with up to 9s. for

Cade.—Offers are from 4s, to 5s, 6d, per lb., on the spot.

CAMPHOR.—White oil is offered at 3s. to 3s. 6d. per lb., duty paid.

Cassia.—Spot quotations are from 15s.

to 16s. 6d. per lb., as to cuantity.

CINNAMON.—Spot offers of Cevlon bark oil are from 10s. to 12s. 6d, per oz., according to quantity; English-distilled, from 24s. to 40s. per oz.; B.P. oil is at 75s. to 85s. per lb. Leaf oil, spot, from 8s. 6d. to

CITRONELLA.—Ceylon, spot, is quoted at about 4s. 6d, to 6s. per lb., according to quantity and seller.

Cubers.—English-distilled is available in reasonable quantities at 55s. per lb.

Geranium.—Bourbon is quoted from 65s. to 70s. per lb., according to quantity and grade.

Sandalwood.—English-distilled, in limited supply, is quoted at 75s. to 90s. per lb. Sassafras.—Brazil quoted at 6s. 6d. to 8s. per lb., according to quantity.

TI-TREE.—Supplies on the spot are offered at from 8s. to 10s. per lb., according to quantity.

### Edible Oils

The National Edible Oil Distributors' Federation announce increases of 1s. 6d. per cwt., or one penny per imperial gall. or approximate gall. of 9-lb., in the rates for refined deodorised edible oils. New rates, with effect from January 4, for all areas, except Devon and Cornwall, are as follows: except Devon and Cornwall, are as follows:
GROUNDNUT, MAIZE, COTTONSEED, SUNFLOWER-SEED, 127s. 6d. per cwt., 10s. 5d.
per imperial gall., 10s. 3d. per approximate
gall.; PALMKERNEL, 126s. 6d. per cwt.,
10s. 4d. per imperial gall., 10s. 2d. per
approximate gall. The prices are for oils
packed in cans. The price of oil in barrels
will be as follows: On loan, 1s. per cwt.
below the ½-cwt. can price; free, 3s. per
cwt. below the ½-cwt. can price. plus the cwt. below the ½-cwt. can price, plus the cost of container.

Devon and Cornwall rates for oils are 2s. per cwt. or twopence per gall. more than those for other areas, and the cwt. prices are based on ½-cwt. loan taper cans.

The Minister of Food announces that no changes will be made in the prices of REFINED OILS and imported EDIBLE ANIMAL FATS allocated to primary wholesalers and large trade users during the eight-week period ending February 28.

#### MARKS TRADE

(From " The Trade Marks Journal," December 10, 1947)

"Toniro"; for pharmaceutical preparations for internal human use, but not including medicated wine (5). By Medo-Chemicals, Ltd., 178 Pentonville Road, London, N.1. 648,331.

Device of insect transfixed by an arrow (device of insect disclaimed); for insecticides, disinfectants, and preparations for destroying vermin (5). By Cooper, McDougall & Robertson, Ltd., Ravens Lane, Berkhamsted, Herts. B648,934.

"DERMATEG"; for pharmaceutical preparations, sanitary substances and disinfectant preparations, all for the treatment of the skin (5). By H. J. Wade & Co., Ltd., Pilgrim House, Lim-

brick, Blackburn. 650,011.

"CALOBALM"; for med cated balms for human use (5). By Christie, George & Co., Manchester Road East, Little Hulton, Lancs. 650,808.

"FRONTOZOL"; for medical preparations (5). By Optrex, Ltd., 14 King William Street, London, E.C.4. 650,985.

"Dolphos"; for deodorisers (5). By J. Evershed & Son, Ltd., 81 Eastern Road, Brighton, 7, Sussex. 651,283 (Associated).

"CERTONIN"; for pharmaceutical preparations and substances (5). By Ward, Blenkingop & Co., Ltd., 6 Henrietta Place, London, W.1. 651,916. "Vel." in distinctive lettering, and "SWATTO";

for insecticides, fungicides, and preparations for killing weeds and vermin (5). By the Hygienic Chemical Co., Ltd., Duplex Works, K'nnerton Street, London, S.W.1. 652,233 and B652,235.

"VANIX"; for pharmaceut cal products (5). By Société Anonyme des Laboratoires du Docteur Debat, 60 Rue de Monceau, Paris, France.

652,331.

"VIFORTAN"; for all goods (5). By H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2. 652,904. "EMBESAN"; for pharmaceutical substances for human and veterinary use; sanitary substances, disinfectants, and preparations for killing weeds and vermin (5); "EMBEQUIN"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 653,073-74 (Associated).
"Ultra Pone"; for medicinal preparations (5).

By Nor-Sun, Ltd., 160 Central Drive, Blackpool,

Lancs. 653,447.
"MESANTOIN"; for pharmaceutical products (5).
By Sandoz, Ltd., 60 Fabrikstrasse, Basle, Switzer-

land. 653,311.
"NIPA" and device of structural formula (formula disclaimed); for antiseptics for pharmaceutical, medical and cosmetic preparations, for an mal, vegetable and essential oils for foodstuffs and for technical products (5). By Nipa Laboratories, Ltd., 44 Leadenhall Street, London, E.C.3. 653,442 (Associated).

"HERMADDITE"; for insect repelling and destroying preparations (5). By Docker Bros., Rotten

Park Street, Ladywood, Birmingham. 653,761.

BALCOR"; for ophthalmic lenses (9). By Bausch & Lomb Optical Co., 635 St. Paul Street, Rochester, N.Y., U.S.A. 651,594.

MEDRESSO"; for hearing aids for the deaf, and parts thereof included in this Class (10). By

Minister of Supply, London, S.W.1. 653,012.

"CENTANAEST"; for medical, dental and surgical apparatus and instruments (10). By the British Oxygen Co., Ltd., Grosvenor House, Park Lane,

London, W.1. 653,653.

Design of three diamonds (colour of diamonds limited to white and blue as shown in the representation on the Form of Application); for hypodermic and serum syringes (10). By Aces Surgical Supplies, Ltd., 88 Rusholme Road, Chorlton-on-Medlock, Manchester.

#### (From the "Trade Marks Journal," December 17, 1947)

"ETHULON," "Uverthon"; for all goods (1); " MERCUTAL"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 653,068, 653,071 and 653,563.

"THE LADY IN RED"; for toilet preparations (not medicated), perfumes, perfumed soap, lipsticks, mascaras, toilet enamels for the nails, and toilet rouges (3). By Fifth Avenue Beauty Preparations, Ltd., 49 Old Bond Street, London, W.I.

649,299. "Lydora"; for cosmetics (not being toilet preparations) (3). By Grosvenor Pharmacy, Ltd., 27 Edgware Road, London, W.2. 650,657.

"RED HORSE"; for cleaning and polishing preparations (3); for disinfectants, insecticides and preparations for destroying vermin (5). By Vacuum Oil Co., Ltd., Caxton House, Tothill Street, London, S.W.1. 651,307 and 651,309 (Associated).

"WISK"; for soaps, detergents, etc. (3). Lever Brothers, Port Sunlight, Ltd., Port Sunlight, Cheshire. 652,825.

"CARLOU"; for non-medicated toilet preparations
(3). By William Karel Groenhart, Broadlawns,
Malember Road, East Molesey, Surrey. 553,083. "Vul-Plas"; for dentifrices (3). By Thomas Pettitt, 110 Reddish Road, South Reddish, Ches.

654,045.

"LINGERING MEMORIES" in distinctive lettering; for perfumes (3). By De Graf Perfume Bars, Ltd., 19 Grosvenor Gardens, Temple Fortune, London, N.W.11.

"LIFOPEP"; for medicated preparations for human use (5). By Joseph Lingford & Son, Ltd., 5 Durham Street, Bishop Auckland, Durham. B646,327

(Associated).

"VANITY" and device of "V" and goose within a circle (letter "V" disclaimed); for sanitary towels (5). By R. J. Collins, Ltd., Vanity House, 26 Hallam Street, Portland Place, London, W.I. 647,986.

"CLEM-TONE"; for pharmaceutical preparations for human use (5). By Thomas Tosh, 35 Summerfield Terrace, Aberdeen. 652,118.

"NEORAN"; for pharmaceutical preparations and substances (5). By Pierce A. Arnold, F.C.S., 43 Pollard Road, Morden, Surrey. 652,152.

"OPAINELIN"; for pharmaceutical preparations containing suprarenalin and procaine (5). By Armour & Co., Ltd., Thornton House, Finsbury Square, London, E.C.2. 652,658.

"VESPRIN"; for pharmaceutical preparations and substances (5). By E. Griffiths Hughes, Ltd., Adelphi, Salford, Manchester. 652,678.

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ANOTHER PAGE FROM THE

17. () [ [ [ ] ] [ ] E

Page 83

Chemicals

HYPOPHOSPHOROUS ACID

Formula — H<sub>3</sub>PO<sub>2</sub>. Mol. Weight 66.

Properties. A white crystalline solid soluble in water. The hypophosphorous acid of commerce is an aqueous solution of this solid acid and is a an aqueous solution of this solid acid and is a colourless odourless acid liquid. Hypophosphorous acid is a monobasic acid and possesses strong

Standard. Solutions containing 50%, 31% and 10% W/W of H<sub>3</sub>PO<sub>2</sub> are manufactured. The 31% extensible should comply with the requirements of reducing properties. strength should comply with the requirements of the British Pharmaceutical Codex (1934) and the 10% (Dilute Hypophosphorous Acid) with the requirements of the British Pharmacopæia.

Uses. Hypophosphorous Acid is used as a reducing agent in organic synthesis, as an analytical reagent, in the preparation of other hypophosphites and as a preservative for hydriodic acid.

Packages. Glass carboys and winchester quarts.

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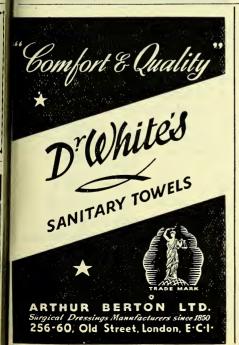
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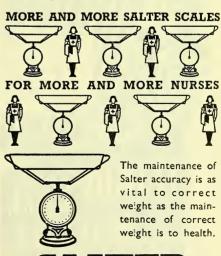
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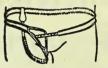
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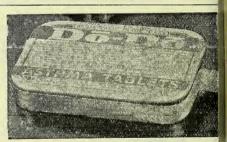
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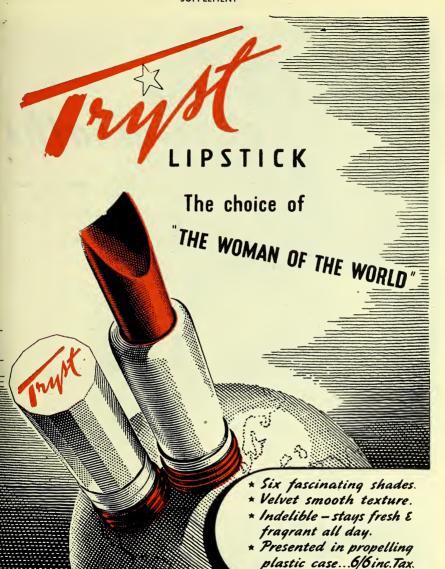


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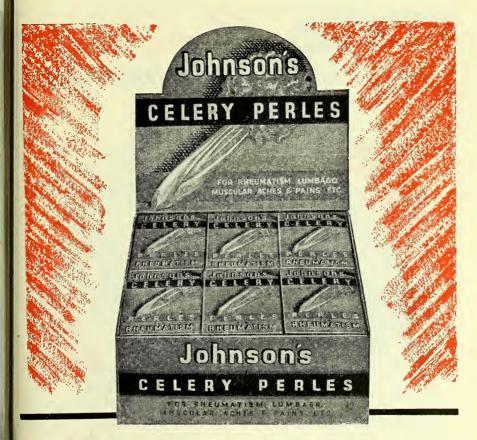
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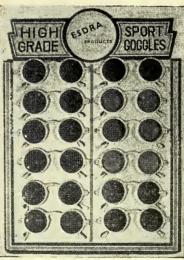
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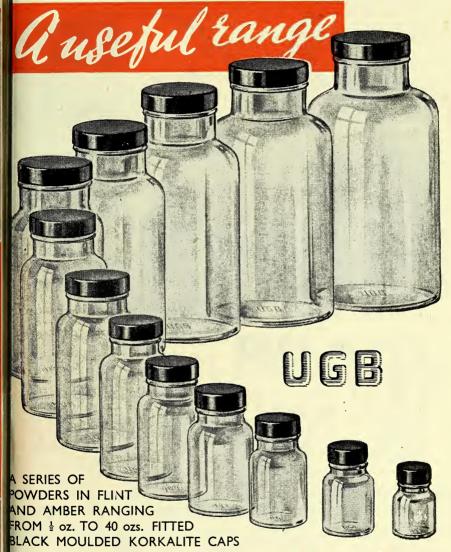
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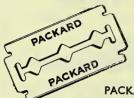
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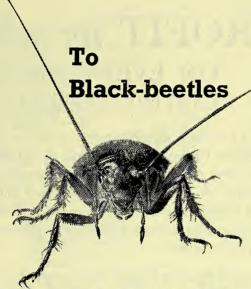
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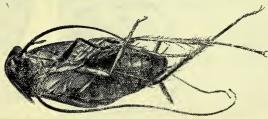


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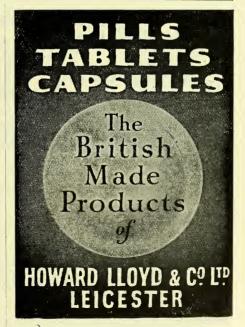


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ILFORD DISTRICT. Vacancy occurring shortly for qualified manager. Comfortable position with considerable scope and corresponding remuneration. Please send full particulars and references, if possible in first letter, Box 2/543.

LADY PHARMACIST required by well-known West End chemists. Good hours and interesting post.

LADY PHARMACIST required by well-known West End chemists. Good hours and interesting post. Apply Box 2/530. LEAMINGTON SPA. Vacancy occurs for energetic, young, qualified, to manage branch shop. Apply, stating all particulars, to Hutton & Barrett, Ltd., 42 Parade, Leamington Spa. LONDON, WEST END. Lady pharmacist required. Permanent congenial position. Full particulars to Manager, Bird & Storey, 1 Marble Arch, W.1. Pad. 8421

8421.

MANAGER, qualified, required for West End branch. Good salary, Generous participation in profits offered to the right man. Phone for appointment. Cen. 6132.

LONDON, W.9. Excellent opportunity occurs for qualified manager at a High Road pharmacy with busy dispensing department and very brisk counter. Must be able to control staff and supervise displays. Good living accommodation available. Permanent, with excellent future for the right man.
Apply Box 2/471.

MANAGER OR MANAGERESS required for very

substantial business in Uxbridge area; good salary and congenial position; there are also excellent prospects for the right type of applicant under an existing profit sharing scheme through which the employee will benefit from any increased net profit. All applications treated as strictly confidential. Box 2/489.

MANCHESTER. Qualified assistant required for retail and dispensing department. Half-day Saturdays. State salary and usual particulars. Box 2/517.

NEAR ELEPHANT & CASTLE. Branch manager (qualified) needed for working-class pharmacy with heavy N.H.I. Experienced staff. Good salary, permanent employment. Apply Box 2/469.

NUNEATON, WARWICKSHIRE. Young, qualified

pharmacist either sex required for dispensing. Pleasant working conditions, congenial staff. Permanency. House or recommended lodgings available. Please forward particulars experience, H. L. Lester, Rexall Pharmacy, 2 Market Place, Nuneaton.

ORRIDGE & COMPANY Employment Agency, 184 Strand, W.C.2. Temple Bar 9212/3. Branches at Southampton and Birmingham. Enquiries invited from pharmacists and unqualified persons requiring Situations. Many attractive vacancies available. Excellent opportunities existing in progressive per-nanencies. Locums provided for. No charge to em-ployees except registration fee. Apply to 184

ployees except registration fee. Apply to 184 Strand, W.C.2, in first instance. PHARMACIST as manager to take charge branch in West London. Permanent progressive post. Living accommodation if desired. Apply "B," Box 2/466.

PHARMACISTS and unqualified assistants required for vacancies in South-East and South-West London. Permanent progressive positions. Superannuation scheme in operation. Apply in writing, stating age, experience and salary required to the Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis Street, Woolwich, S.E.18.

PHARMACIST assistant-manager required for busy dispensing and counter business in N.W. London. No Sunday or holiday duty. Good experience for recently qualified. Good salary and conditions.

Apply Box 2/480.

QUALIFIED ASSISTANT required, male or female, for West End pharmacy. Five-day week and no Sunday duty. Apply giving full particulars of age, experience and salary required, to Marsons, Ltd., 123 Baker St., London, W.1.

QUALIFIED MANAGER required for branch in the East End of London. Must be able to handle N.H.I. and brisk counter. Branch capable of development, and a high salary will be paid to a really suitable applicant. Apply Box 2/468.

QUALIFIED MANAGER required for Harriston Franklick Fedulet In Southern Fedule 2/470

QUALIFIED PHARMACIST wanted as assistant for central shop. Superannuated, permanent, progressive position. 43-hour week. Newly decorated house available at early date. Applications, giving full particulars and stating wage required, not later than 24th January, to General Manager, York Co-operative Society, Ltd., 22 Railway Street, York.

SOUTH KENSINGTON. Part-time qualified man wanted for 2 or 3 days a week, dispensing and counter. A. Tennant, 105 Old Brompton Rd., South Kensington, S.W.7.

URGENT. Qualified lady or gentleman chiefly for dispensing. Directorship and good permanency to right person. Splendid opportunity in private com-QUALIFIED PHARMACIST wanted as assistant for

right person. Splendid opportunity in private company in growing area. Box 2/509.

TYLDESLEY & DIST. IND. CO-OPERATIVE SOCII III. LTD., 240 Elliott Street, Tyldesley. Qualified mist and optician required as superintendent for pharmacy to be opened in the near future. is a permanent position with excellent opportunand advantages. Written applications to be and advantages. Written applications to warded to the office of the above Society, g age and experience, together with copies of recent testimonials, not later than January 31, 1948. Satur

January 31, 1948.

UNQUALIFIED female assistant for pharmacy and the properties of previous experience essential. The properties of previous expenses, and the previous expenses of the previous expense

commodation available. Drs. Bernard & Halfpe

11 Lower Stone St., Maidstone.

WANTED immediately; assistant to proprietor; prenticeship considered. Vigorous growing busin suitable for potential salesman or saleswoman; suitable for potential salesman or saleswoman; ticularly adaptable apothecary. Apply, stating q fications, age, salary required and references, lor's Pharmacy, 137A Sparrow Heme, Bushey. WANTED. Young lady assistant for counter v in high-class West End pharmacy. Experience necessary. Good wages. Easy hours. Apply letter to Hodge. Chemist, 10 Kensington Sg., 1 WEST HARTLEPOOL. Pharmacist capable of talebarge of a branch required. Suit newly gual WEST HARTLEPOOL. Pharmacist capable of ta charge of a branch required. Suit newly qual person. Exceptional opportunity for experience busy good class store pharmacy. J.I.C. scale wages. Particulars to Hartlepools Co-opera Chemists, Ltd., West Hartlepool, YOUNG, ENERGETIC QUALIFIED ASSIST/ required for family chemist. Small N.H.I. 15 n from London. New house available, away from mises. No holiday duty. Apply with usual particut to McDowall, Chemist, Radlett, Herts.

#### LOCUMS WANTED

QUALIFIED LOCUM required from July 5th to ! inclusive. Reasonably priced accommodation avable if required. Assistance in shop. Please inclusive terms and references if possible. Grah Ltd., Burlington St., Bolton.

#### WHOLESALE

A COMPANY manufacturing a well-known prop tary line, well advertised, have vacancies for resentatives calling on chemists in the London a Remuneration on a commission basis. Write in first instance, to Box 2/550.

A FINE OPPORTUNITY to represent Sharp

Dohme, Ltd., occurs in the Midlands area. Ar cations are invited from pharmacists who are to undertake the medical and pharmaceutical in to undertake the medical and pharmaceutical in duction of ethical specialities, mainly products original research. Residence in the area essen Remuneration by salary, commission and expen Brief personal details should be submitted, in c fidence (with photograph), to Home Sales Mana Sharp & Dohme, Ltd., Hoddesdon, Herts. AN ASSISTANT ANALYST (female) required, v experience of pharmaceutical analysis. Fact situated on eastern outskirts of London. Wr stating age experience and salary required. stating age, experience and salary required, to 2/439. This advertisement is inserted by perison of the Ministry of Labour and National Servinder the Control of Engagements Order, 1947.

pany for manager and female assistant (a) For port; (b) To develop new department for the homarket. Applicants must have good knowledge technical, fine, pharmaceutical chemicals, dyest and pigments; up-to-date experience of mark and connections with suppliers. Good remunerati Apply Box 2/453. AN OPPORTUNITY OCCURS with progressive co

YST. Assistant required for chief Analyst to cal and pharmaceutical factory on outskirts ockport. Candidates should possess B.Sc. and ably Ph.C. qualifications with experience in all and chemical control of raw materials, indiates and finished products. Applications will ated in confidence and should be addressed anaging Director, British Schering Manufac-Laboratories, Ltd., 38 Fitzwarren St., Seedalford, 6, Lancs.

ICATIONS invited from representatives calling ncy goods trade, all areas except Northumberand Durham, to carry extra line, something ly new. Commission basis. Box 2/513.

reactions are invited from keen, experienced nen calling upon the majority of chemists in allowing areas:—(1) Lancs, Cheshire, N. Wales; Dumberland and Westmorland; (3) Midlands of Birmingham; (4) Scotland; (5) N. Ireland. sentatives in other areas earning £500.£1,000 from our two popular profitable nationally buted lines. Excellent commission offered to salesmen. Car owners preferred. Write full culars to Box 2/427.

HIST required for small factory in W. London Pharmaceutical qualification, analytical and ducturing experience essential. Responsible progressive post. Apply stating age, qualifica-experience and salary required to Box 2/496.

LABORATORIES, LTD., have a vacancy in pharmaceutical manufacturing department for le qualified assistant, preferably under 25 years te. The work involves the large-scale manufac-The work involves the large-scale manulac-of ampoules, ointments, tablets and other pre-ions, and it is desirable that applicants should experience of, or be interested in, the appli-n of mechanical methods for this purpose. The ion is permanent and offers considerable scope advancement. A contributory pensions scheme operation. Apply, with full particulars of edu-nand career to date, to Works Manager, Ciba ratories, Ltd., Horsham.

ANCY & CO., LTD., Harrow, Middlesex, rea qualified representative to live in the Mid(preferably Birmingham area) and take over
develop existing clientele in the Midlands and
Anglia as far north as the Lancashire-Yorkborder. Preference given to car owner. Salary,
nses and commission. Applications, in writing,
be treated as confidential.

RIBUTORS of medicinal products, beauty aids sundries, require two full-time salesmen: (1) lands, (2) W.R. Yorks, Cumberland and Westland. Only live salesmen with established conions with chemists, Co-ops. and stores on resive territories, need apply. Car owners pred. Salary, commission and expenses. Fullest ils in confidence. Box No. 482, Arthur S. Dixon, 229 High Holborn, W.C.1.

NS MEDICAL SUPPLIES, LTD., require two og pharmacists to work in their manufacturing ratories. Applications, giving full details of lifications and experience, should be sent to The nager. Evans Pharmaceutical Laboratories, 29 et Street, Liverpool, 1.

ERIENCED speciality salesmen required to carry itional high-class pharmaceutical line on very rous commission terms, calling on chemists and lesalers in the following territories: (1) South tern Counties, (2) Eastern Counties, (3) Wales, Scotland, (5) Midlands, (6) Lancashire/Cheshire. 2/465.

ST-CLASS REPRESENTATIVE experienced in rmaceutical and chemists' trade for Manchester a nd Potteries. Well-known manufacturing and plesale chemists; car owner preferred; established itory. Good remuneration, salary, commission expenses. Permanency. Applicants should be let 45. State fullest details in first instance. Box GOOD OPPORTUNITY and permanent post in Midlands for man experienced in wholesale and retail pharmaceutical prices. Suitable position for chemage, experience and salary required and when at liberty. Box 2/527,

HEATH BROS. & SONS, LTD., require a representative for Lancashire area, previous experience of the chemists' sundry business preferred, resident in Manchester district an advantage. Salary, conmission and expenses. Apply 98/100 Chapel St., Salford, 3.

LEVER BROTHERS & UNILEVER, LTD., require two senior and six assistant bacteriologists for work in a variety of fields. Applicants must possess a University degree or diploma in bacteriology or an honours degree in chemistry with adequate postgraduate training or experience in bacteriology; graduate training or experience in Dacterology; considerable research experience is required for the senior posts. All the posts will be tenable in the first place at the Research Department, Port Sunlight, Cheshire, with the transfer at an early date of some of the holders to the new Food Research Department, which is in process of formation at Colworth House, Sharnbrook, near Bedford. Salaries will be related to qualifications and experience. Applications should be addressed to Lever Brothers & Unilever, Ltd., Personnel Department (F.M.D.), Unilever House, Blackfriars, London,

LOFTHOUSE & SALTMER, LTD., manufacturing chemists, Hull, require a representative for South Yorkshire, West Riding and Midlands. Please state full particulars: age, qualifications, experience, ff car driver or owner, and salary required. (Preference will be given to one living on the ground.) Address: The Secretary.

MAN OF INITIATIVE required to build up existing chemical department of well-established export conpany. Previous experience of trade necessary. Reply Box 2/535.

MANUFACTURERS of first-quality and very attractively presented products, in popular demand, reorganising territories have vacancies for enthusiastic organising territories have vacancies for enthusiastic representatives or agents with real ability, prepared to give full representation. 1. Eastern and part Midland Counties. 2. London north of Thames, Middlesex, Herts, Bucks, Beds, Oxford. 3. Hants, Dorset, Wilts, Somerset, Devon, Cornwall. 4. South Wales, Hereford and Gloucester. Established connections, chemists, stores and Co-ops. Own car. Existing accounts transferred. Fullest particulars, age, experience, present territory, lines carried reage, experience, present territory, lines carried, remuneration preferred. All complete applications acknowledged. Box 2/532.

MANUFACTURERS of pharmaceutical specialities near Liverpool have a vacancy for a pharmacist (Ph.C. or B.Pharm. preferred) to take charge of department manufacturing tablets, injections, etc. Reply in first instance to Ward, Blenkinsop & Co., Ltd., 6 Henrietta Pl., London, W.1.

MANUFACTURING CHEMISTS, N.W. London, have vacancy in their pill factory for an assistant with previous experience or willing to learn the trade, resident in London area. 5-day week. Write, stating age, details of previous experience. Box 2/481

MEDICAL REPRESENTATIVE calling on doctors, hospitals and chemists London and Home Counties for well-known ethical house. Write fully stating age, experience and salary required. Box 2/475.

PHARMACIST required for the position of trainee buyer of the drug and surgical departments of Harrods, Ltd., Knightsbridge. Applications should be addressed to The General Manager.

PILL AND TABLET COATER. Experienced in all types of coating work, resident in London area, required by manufacturing chemists working 5-day week. Apply with full details of past experience, age and salary required. Box 2/482.

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PROGRESSIVE POSITION as junior representative is offered by old-established Midlands firm of sundries and patents distributors. Salary, commission and expenses. Must be experienced. Car driver preferred. Box 2/523.

REPRESENTATIVES for Scotland, North England and Midlands required by small well-established wholesale druggist for first quality sundries (non-surgical); good chemists' connection essential. Attractive commission terms, Relevant particulars, including lines carried and territory covered, to Box 2/542.

REPRESENTATIVE required by well-known firm dealing essential oils and aromatic compounds to cover mainly area Midlands and Scotland; knowledge of this trade an advantage but not essential. Salary, commission, expenses. Write in detail, Box 2/549.

REPRESENTATIVES to carry quick selling and repeating quota lines wanted in several parts of the country. Must have good connection with chemists and stores, etc. Other lines not objected to if non-clashing. Commission terms. Full particulars to Box 2/529.

REPRESENTATIVE required by well-established and progressive firm of manufacturing chemists to call on factories, councils, medical officers, etc., in N.E. London and Eastern Counties. Remuneration will be by salary, commission and expenses. Applicants, preferably car owners possessing the necessary qualifications, should send full particulars to Box 2/528.

REPRESENTATIVE required with good connections amongst the grocery trade in the counties of Gloucester, Wiltshire and Somerset, To carry a smart range of packed pharmaceuticals, Remuneration by salary, expenses and commission, Apply with fullest details to Kempac, Ltd., Batley.

REPRESENTATIVE required for special work. Willing to travel United Kingdom. Must have own car. Salary, expenses and commission. Apply in writing, with fullest particulars. Howard-Taylor, Ltd., Balham High Rd., S.W.12.

REPRESENTATIVES required by manufacturers of high-class pharmaceutical products. Must be well-introduced to chemists. Generous commission. Send full particulars (incl. lines carried and territory covered) to Box 2/446.

REPRESENTATIVES calling on retail and manufacturing chemists, drug stores, perfumers, hairdressers, doctors and hospitals, required in London and all counties for sale of medical, perfumery and toilet bottles and jars. Box 2/511.

REPRESENTATIVE, experienced essential, wanted by old-established London house to carry high-class chemists' and hairdressers' sundries and proprietary lines, London and Greater London area. Retaining fee and commission. Write age, experience, etc. 2002 (2512).

REPRESENTATIVES required on generous commission basis with good connection chemists, Co-ops., stores, etc., in London and Home Counties and certain provincial areas, for new line of pharmaceutical products making rapid headway. Write full details age, experience, territory covered, lines at present carried, to Alpha Pharmaceuticals, Ltd., 130 Larkhall Ln., S.W.4.

SHORTHAND TYPIST required for first-class cosmetic company. Apply Duncan, Harris & Co., Ltd., Cen. 6132.

YOUNG LADIES REQUIRED for reagent section of laboratory. Progressive situations. Five-day week. Apply to Chief Chemist, Hopkin & Williams, Ltd., St. Cross St., Hatton Garden, E.C.1.

YOUNG PHARMACIST required. Energetic, willing and with initiative, required to assist in the management of a London wholesale house. Possible prospects as a traveller later on to the right man. Reply with usual particulars of salary, experience, etc., to Box 2/526.

#### CLERICAL

EXPERIENCED shorthand typist required for Publishing and Advertisement Department of CHEMIST AND DRUGGIST. NO Saturdays. P write stating full particulars to the Staff Direc Morgan Brothers (Publishers), Ltd., 28 Essex Strand, London, W.C.2.

COMPANY SECRETARY. Applications are infrom qualified accountants for appointment secretary to a group of three associate compa manufacturing and marketing ethical pharma ticals. The position includes assumption of sponsibility for preparation of companies' account general financial and personnel control, supervi of process costing, efficiency of statistical recand all clerical procedures. Previous experience a commercial organisation would be desir although not essential. Applications will be trein confidence and should contain particulars of qualifications and experience. They should marked "Confidential" and addressed to Maing Director, British Schering, Ltd., 167 G Portland Street, London, W.1.

GIRL wanted by the Proprietors of this Newspa No experience necessary. Age about 16. To train mechanised accountancy. No Saturdays. Apply writing to the Staff Director, Morgan Broti (Publishers), Ltd., 28 Essex St., Strand, Lonc W.C.2.

OFFICE BOY required by the proprietors of paper: Age not more than 16. No Saturdays present. Salary according to qualifications. Wigiving full particulars to the Staff Director, Mor Brothers (Publishers), Ltd., 28 Essex St., Stra London, W.C.2.

WORKS ACCOUNTANT required for new chem and pharmaceutical factory at Hazel Grd Cheshire. Applicants should possess a sound kn ledge of process costing and of general accountar Experience in a commercial organisation would desirable although not essential. Applications be treated in confidence and should contain particulars of age, qualifications and experier They should be addressed to: The Secretary, Bri Schering Manufacturing Laboratories, Ltd., Fitzwarren St., Salford, Manchester, and mark "Confidential."

#### WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large compa operating in the Middle East. Will be employeither on development or process work and sho be prepared initially to undertake shift work process plant; should possess B.Sc. degree and pi erably, have had subsequent industrial experien Age not over 30. Single men preferred. Start salary not less than £500/£600 p.a. according qualifications, together with a generous allowance local currency, also free furnished bachelor accomodation, free passages out and home; free medi attention; kit allowance; provident fund benef Applicants must be of full British parentage a should write stating age, qualifications and expience to Dept. F.18, Box 1006, at 191 Gresh House, E.C.2.

EVANS MEDICAL SUPPLIES, LTD., have vacance in their South African Company for foreign repsentatives; single men preferred. Applicants show state age, qualifications, experience, etc., to Overseas Trade Director, Speke, Liverpool, 19.

FIRM of fine chemical manufacturers, who are a developing a number of industrial products, requirences of a representative used to foreign travand able and willing to travel in most foreign a overseas markets with a view to making agen arrangements. Fluent French, Spanish, Portugues German desirable. Box 2/498.

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NT CHEMISTS urgently required for process t operation by large company operating in the dle East. Applicants need not be graduates but all have had a chemical training up to Inter-c. or National Certificate standard with expere of shift work in either a gas, coke oven or nical works. Age not over 30. Salary in ling between £540 and £600 per annum plus crous allowances in local currency, with free ing between a critical currency, with free rished bachelor accommodation, passages out and re, medical attention, also kit allowance and vident fund benefits. Apply stating age, qualitions and experience, etc., to Dept. F.22, Box I, at 191 Gresham House, E.C.2.

JTH AFRICAN FIRM, thoroughly established, experience of well-known British manufactors.

ive distributors of well-known British manufac-ers, carrying stocks of chemist sundries, patent dicines, proprietary brands, toilet preparations, rubberware, surgical plasters, surgical instruits, veterinary medicines, insecticides, fancy ionery, pencils, etc., wish to engage capable s manager with initiative to be in charge of our w Cape offices after preliminary training. Must live wire salesman and organiser. Starting live wire salesman and organiser, Starting ary £600 per annum, liberal commission, car wance, general expenses, with unlimited prosts. Preference will be given to person in tition to invest £5,000, on which 6% interest I be paid. Exchange of trade and bank refereninvited. Priority passage will be arranged, the confidentally to Dominion and Continental sencies, P.O. Box 77, Durban.

#### SITUATIONS WANTED

- for 18 words or less, Id. for every additional word

#### RETAIL (HOME)

**SSISTANT**, locum or permanency; 30 years' experi-

bisiant, locum or permanency; 30 years' experitive counter-prescribing, dispensing, making stock, smetics, etc. Accurate and quick worker. Austin, olly Lodge, Pilmer, Crowborough.

HARMACIST, 27, experienced good class family reil, seeks post, South West England preferably, sistant or manager similar business where permal interest can be shown. Accommodation (wife, ne child) required. Please state approximate terms rest letter. Box 2/479.

HARMACIST seeks managerial position. Vide experience large high-class cosmopolitan re-ail business; also wholesale home/export trade.

PHARMACIST AND WIFE (also qualified) require etail post South or South-western areas. Available september. Unfurnished accommodation essential.

#### WHOLESALE

A PRODUCTION FOREMAN, 20 years' experience in manufacture of fine chemicals, extracts, amino acids, tableting, available now. Used to plant assembling and handling mixed staff. Apply Box

AT YOUR SERVICE! Traveller, 20 years' experience chemists, stores, multiples, London and South Coast, desires change. If you desire energetic representation please write Box 2/536.

COMMERCIAL MANAGER, proved record with firstclass companies, seeks change, preferably London or Home Counties, seeks Change, intensive experience in the selling and marketing of well-known proprietories, able to plan clearly, used to controlling office and field staffs, would welcome a responsible liaison or co-ordinating position or an opportunity to modernise existing organisation. Available shortly.

Box 2/499 COSMETIC CHEMIST experienced in formlating and manufacturing all types of cosmetics desires responsible position with established firm, or seeks consulting appointment on part-time or retaining fee basis. Box 2/478.

ENERGETIC MANAGER with proved ability to get full co-operation of workers, desires post where this capacity can be applied to advantage. Wide experience in warehouse side of drug and chemical industry. First-class references. Anywhere outside London considered. Box 2/495.

EXPERIENCED TRAVELLER at present representing EXPERIENCED IRAVELLER at present representing proprietary cosmetic manufacturers, desires change. Sound connections chemists, departmental stores, etc., Kent, Surrey, Sussex, Hants. Salary, expenses and commission, or would consider reputable commission agencies. Box 2/454. EXPORT MANAGER, aged 41, desires progressive position offering scope. Fully experienced all

position offering scope. Full shipping procedure. Box 2/504.

MANUFACTURING CHEMISTS. General works manager, aged 35, with expert knowledge of the manufacture of various type polishes, soaps, cleaners, and all household requisites, desires to contact principals of concerns where this knowledge, coupled with proved ability to organise and control all aspects of modern manufacturing company, would be appreciated. Remuneration in the region of £800/£1,000 per annum. All replies answered, and treated in strict confidence, Box 2/533.

PHARMACIST, wide experience representative and export sales market research, languages, French, Italian, Spanish, Portuguese, seeks position home or foreign representative or export department. Box 2/545.

REPRESENTATIVE, 33, experienced commercial and medical presently engaged in Midlands, seeks change
—London or Home Counties. Own car, etc. Salary,
commission and expenses. Box 2/531.

REPRESENTATIVE, fully experienced, first-class connection with chemists in Lancashire, desires position reputable company or would consider agency on commission basis. Box 2/494.

SALES MANAGER (M.S.M.A.) with successful sales record in marketing, selling and distribution of proprietary products (C.F., P.A.T.A.) to chemists, Co-ops and stores, desires change. Inquiries invited. Box 2/505.

SCOTSWOMAN, thorough knowledge trade, sales, marketing, distribution, secretarial, proceeding Capetown, anxious contact firm with Capeests, view to employment on arrival.
Willing consider any available opening. town interests. Adaptable. Box 2/524.

#### **APPOINTMENTS**

#### CITY OF NOTTINGHAM HEALTH COMMITTEE

ASSISTANT PHARMACIST

Applications are invited for the above appointment from duly qualified Members of the Pharmaceutical Society. Salary at the rate of £370 per annum, rising by annual increments of £15 to £430 per annum, and thence by a further increment of £20 to £450 per annum, in accordance with the Joint Negotiating Committee (Hospital Staffs) recommendations.

The successful candidate will work under the direction of the Chief Pharmacist and will be required to undertake duties in other of the City Dispensaries as occasion demands.

Applications, stating age, qualifications, details of experience and previous appointments, if any, together with copies of two recent testimonials to be sent as soon as possible to the Medical Superintendent, The City Hospital, Nottingham.

J. E. RICHARDS, Town Clerk.

The Guildhall January, 1948. Nottingham.

January 10, 1

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AIR MINISTRY
Dispenser/medical storekeepers required at R.A.F. Medical Equipment Depot, Chessington, Surrey. British subjects, under 50, either sex. Successful applicants required to pass a medical examination. Rate of pay: males 110s., females 96s. per 44-hour week. Applications by letter only, stating age, qualifications, employment and experience to date, to the Commanding Officer by January 17, 1948.

#### COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE CLIFF LANE, WAKEFIELD

Wanted, Qualified Pharmacist for position in County Supplies Department. County Supplies Department. Salary £435/ £535 by increments of £20, inclusive of bonus. Apply in writing to the Manager, West Riding County Supplies Department, Cliff Lane, Wakefield, not later than fourteen days after the advertisement has appeared.

#### CITY OF YORK

Applications are invited for the post of Pharmacist to the municipal group of hospitals. Salary in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs) Grade—" Chief Pharmacist with one assistant." Applications accompanied by two recent testimonials should reach the under-signed not later than Saturday, January 17,

C. B. CRANE, M.B., B.S., D.P.H., Health Department, Medical Officer of Health. 50 Bootham, York.

### **ESSEX COUNTY COUNCIL** ORSETT LODGE HOSPITAL, ORSETT

Nr. GRAYS
PHARMACIST-IN-CHARGE (single-handed). PHARMACISI-IN-CHARGE (single-handed). The conditions of service of the Joint Negotiating Committee (Hospital Staffs) have been adopted. Salary £420 p.a. by 5 annual increments of £15 to £495 p.a. Application to G. E. Pegram, Esq., Social Welfare Department, Waterloo Lane, Chelmsford, Essex.

KENT COUNTY COUNCIL
ASSISTANT PHARMACIST
Applications are invited for the following appointment at the County Hospital, Sevenoaks Road, Orpington.

ASSISTANT PHARMACIST (M.P.S. or

Ph.C.) either sex. Hospital experience preferred Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone.

12th December, 1947.

#### NORTH WALES COUNTIES MENTAL HOSPITAL, DENBIGH

Dispensing Assistant required, holding the certificate of the Society of Apothecaries. Salary £270 x 5 yearly increments of £10 to £320, thereafter a £10 increment every 4 years to a maximum of £350. The post is permanent and pensionable subject to a probationary period of 6 months. Applications accompanied by two recent testimonials to the Medical Superintendent Medical Superintendent.

#### MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex. (Registered essential). J.N.C. (Hosp. Staffs) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may determine commencing salary. Recently determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment; subject to medical examination. Application stating age, quals, exper., with copies of up to 3 recent testimonials to MEDICAL DIRECTOR at Hospital, IMMEDIATELY. No forms (quote C 292 C D).

C. W. RADCLIFFE, Clerk of the County Council. Middlesex Guildhall S.W.1.

#### **AGENCIES**

17/6 for 36 words or less, 4d. for every additional word

AGENTS required calling on chemists, etc., in all areas, to sell a high-class moderately priced perfume. Smart modern presentation. Apply in first instance by letter to L. A. Hoare, Ltd., Farnley Rd., South Norwood, London, S.E.25.

MANUFACTURING CHEMISTS require agent on commission terms for their lines on the Yorkshire ground. Apply Box 2/486.

MANUFACTURERS' AGENTS with first-rate whole-sale and retail coverage over their particular area required by toilet brush manufacturers. Reply, giv-ing details of territory covered, etc., to Box 2/547.

WELL-ESTABLISHED foot appliances manufacturers (high-class foot supports, foot easers, also prescription work) (24 hours' service) would like to contact firm or agent or repute for co-operation as agent for London, S.W. England and Midlands. For details please write Box 2/546.

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ADVERTISER, with recent designed machine, automatic and power-driven; minimum output one gross per minute, desires to meet firm, etc., who would be interested in this machine. Box 2/541.

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SALES MANAGER, well-known company commencing own business as agent, wishes contact manufac-turers with reputable products, who desire wide distribution of their lines or the marketing of new products. Excellent connection through personal contact over many years with wholesale grocers, chemists, Co-operative Societies, departmental stores, multiples. Sales organisation covering country. Highest credentials, Reply Box 2/525.

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PARTNERSHIP offered in established business to a man with capital. Must have past experience in producing toilet, pharmac exists and household pre-Write to Box 2/450. parations.

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WDERS, ointments and creams. New, up-to-date achinery enables us to offer manufacturing and/or cking services for the above products. Full pharaceutical control. J. J. & J. Jenkins & Associates, d., 78 Bollo Bridge Rd., London, W.3.

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HEMIST, Edinburgh main thoroughfare, well beked and fitted. Old established. Box 2/484.

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BRISTOL (or within a 10-mile radius). Required for private pharmacist by June 1948, substantial family business returning £150-£200 per week. No optics. Cash available. Living accommodation not essential. Box 2/500.

essential. Box 2/500.

CHEMISTS' BUSINESSES required in London area. Capital available for good going concerns. Neglected businesses or suitable premises also considered. Apply to principals. Box 2/538.

DRUG STORE wanted by ex-Serviceman. Capital available for purchase of freehold if necessary. Would consider chemist or surgical store. J. P. W., 38 Troy Court, W.8. Tem. 2838 (Wes 2462 after 6 o'clock).

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BOTTLES. 10 gross 2-oz. fancy toilet bottles. 5 gross 4-oz. ditto. 10 gross 16-oz. med. flats S/C. Box 4-oz. ditto.

2/492.

BOTTLES. 30 gross 6-oz. plastic screw cap medicals, plain, 38s. gr. 10 gross perfect washed, 4-oz. medicals, white flint panel and plain, 24s. gr. 20 gross 2½-oz. Tobins, complete screw cap, 33s. gr. Prices ex Leeds. 5 gross Simplex American safety razors, neatly cartoned, 12s. doz., inc. tax. Lever, 44 St. Albans St., Leeds, 2.

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BUCALYTUS OIL 70/75 % and 80/85% for prompt delivery, ex stock. Apply Box 2/540.

FOR SALE, brand new Manesty No. 3 tableting

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FOR SALE, 56 lb. glycerine, 3 cwt. stearic acid triple, 3 cwt. pulv. tragac opt, 1 cwt. ung zinci, 1 cwt. ung acid boric, 1 cwt. years 1 cwt. kaolin, 1 cwt. pulv. borax, 100 lb. calcii carb precip, 66 lb. block juice, 100 lb. soft licorice, 300 gross P.F. pill boxes No. 3, 1 cwt. pulv. henna, 3 drums white odourless oil, 1 gall. inseed oil, ½ gall. turpentine gen, 20 gross approx. perfume bottles, 100 gross approx. bottles. 2-oz., 4-oz., 6-oz., 8-oz., with black s/c and corks. Edward Scurr, 2 Little Westgate, Wakefield.

FOR SALE, Bond St. shop fittings, comprising 2 shallow glass cases 6 ft. long, 2 glass wall cabinets 5 ft. long. Suitable for fancy goods or chemist trade. Write Box A270, L.P.E., 110 St. Martin's Ln., W.C.2.

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OFFERS REQUIRED for 522 gross 1-oz. and 71

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SURPLUS ALMOND OIL B.P., 12s. 6d. lb., for sale, also apricot kernel oil, 11s. lb. Box 83, c/o George Murray (Advertising), Ltd., 184 Strand, London,

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GLYCERINE wanted, any quantities taken of B.P.

quality, Cash by return, State quantity available and price required to Box 157/296. LONDON. Exchange modern flat, S.W. London, for similar, Glasgow. Box 2/518. MIXER WANTED. Horizontal steam jacketed with double blades. 700-800 lb. capacity. Stainless steel preferred. Particulars to Box 2/361.

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2/298.
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SESQUI CARBONATE, crex and stearic acid triple and double pressed. Write Box 2/552.
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WANTED. Backing papers only, size 120, 620, 127; must be in perfect condition and rolled in bundles of 1 dozen each. Payment of 2/- per dozen by return. Enclose name and address in parcel and state number sent. Gray's Camera Shop, Lower Middle St. Tauntor. Middle St., Taunton.

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St., Taunton.

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